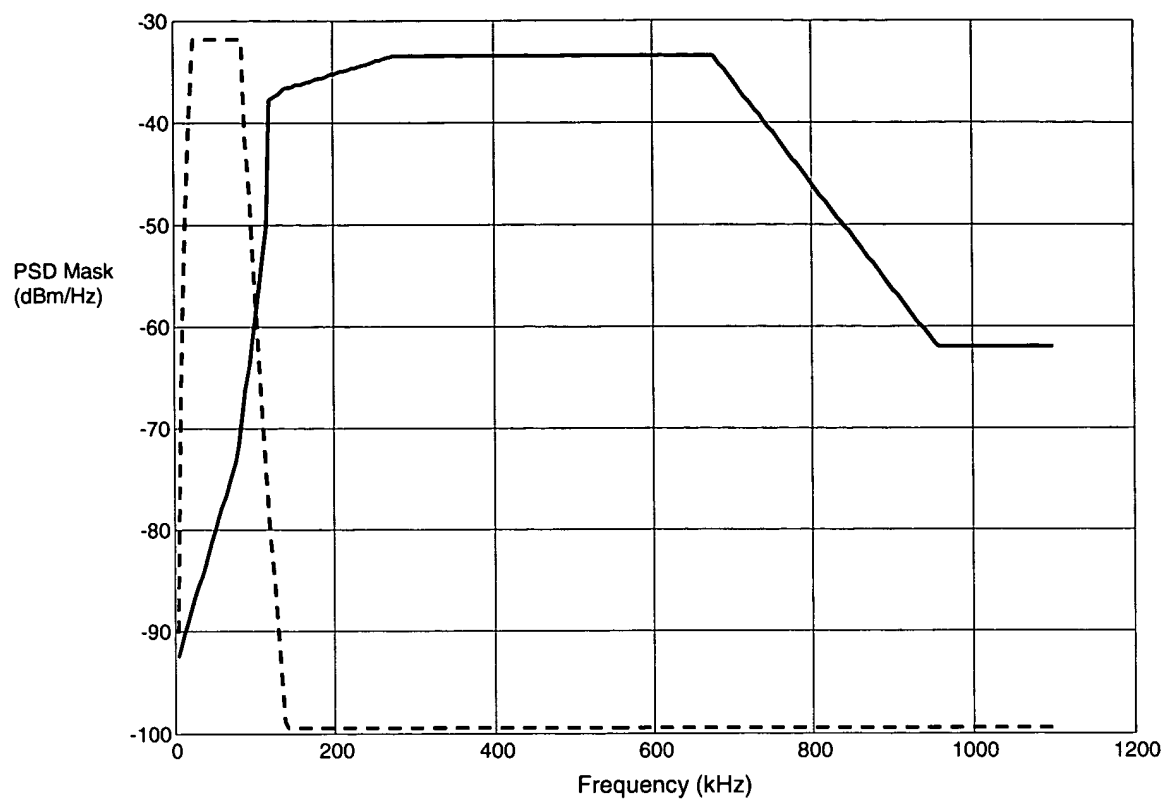
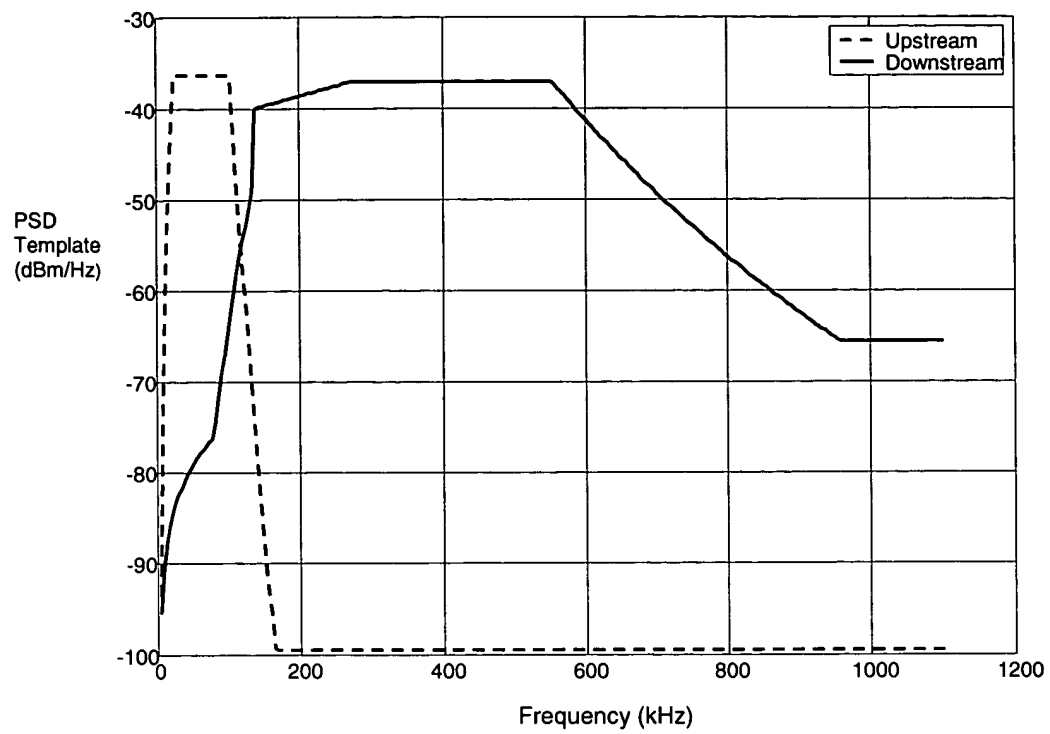


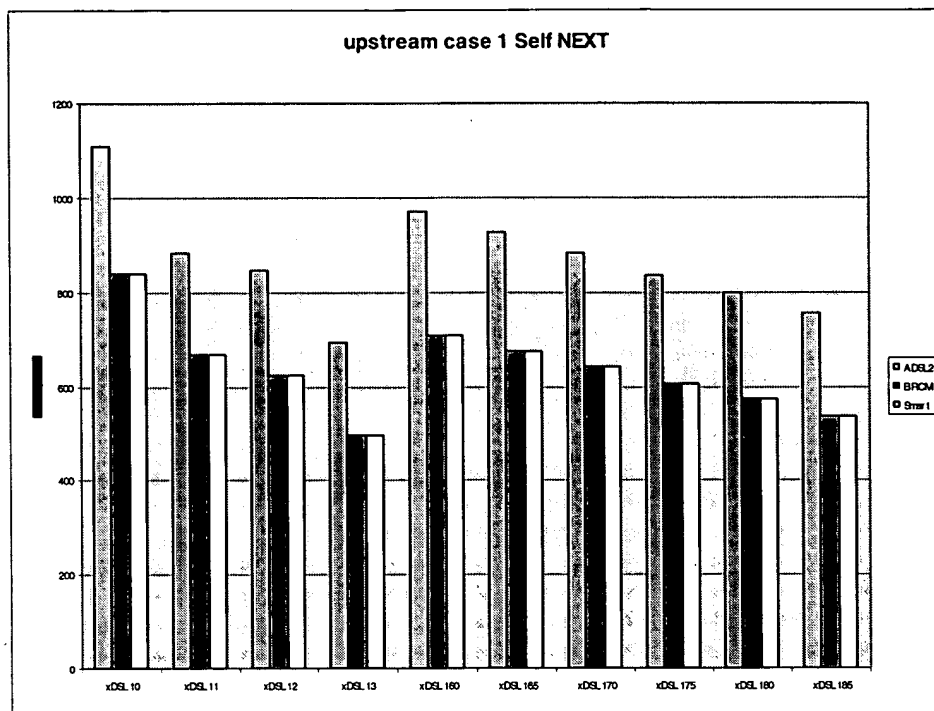
**Figure 1.U1 and D1 PSD Masks, peak values**



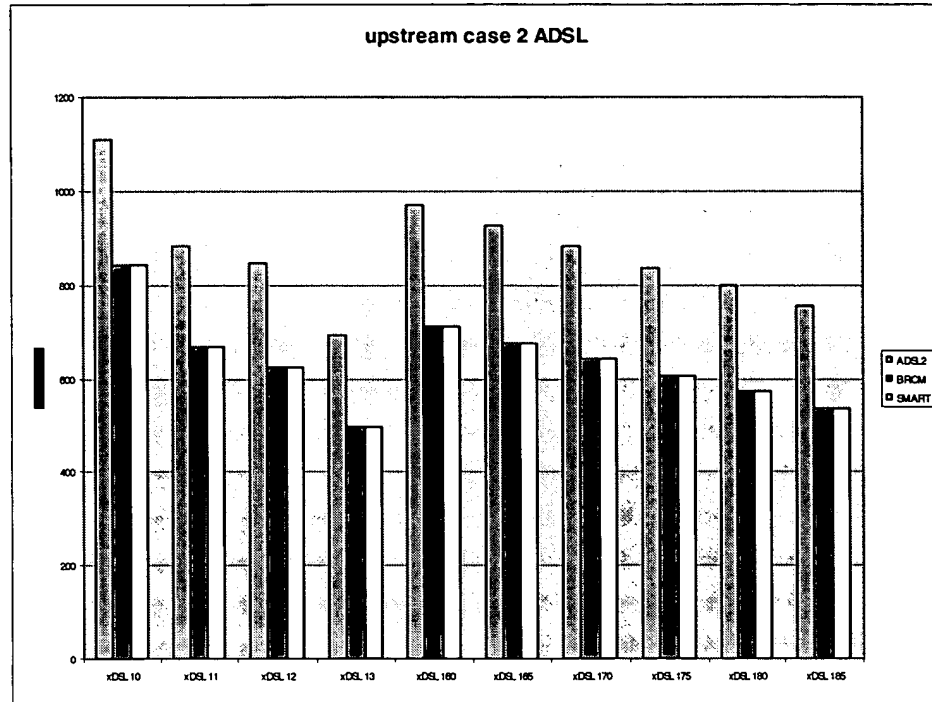
**Figure 2. U2 and D2 PSD Masks, peak values**



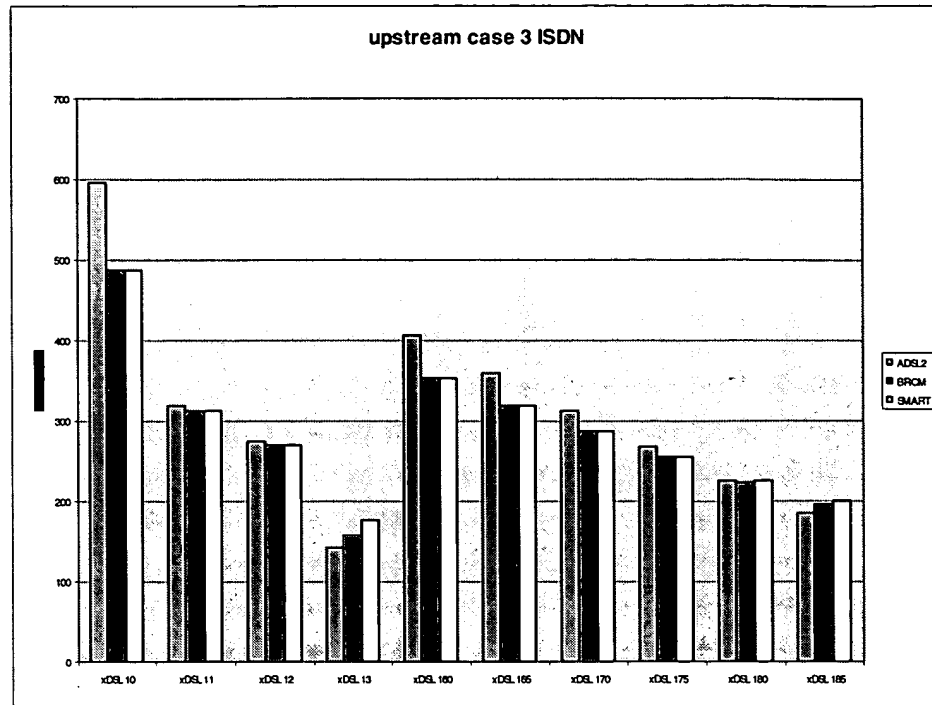
**Figure 3. U3 and D3 PSD Templates, average values**



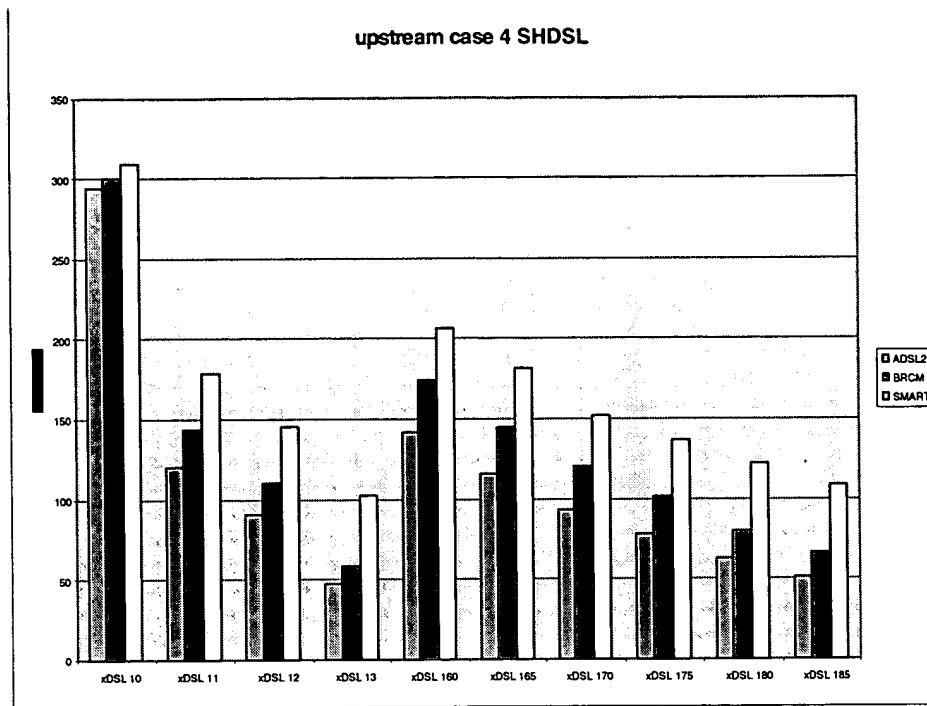
**Figure 4. Bar Chart, Upstream Rate, Noise case #1, ADSL2, M OJ-074, NON EC Smart LDSL**



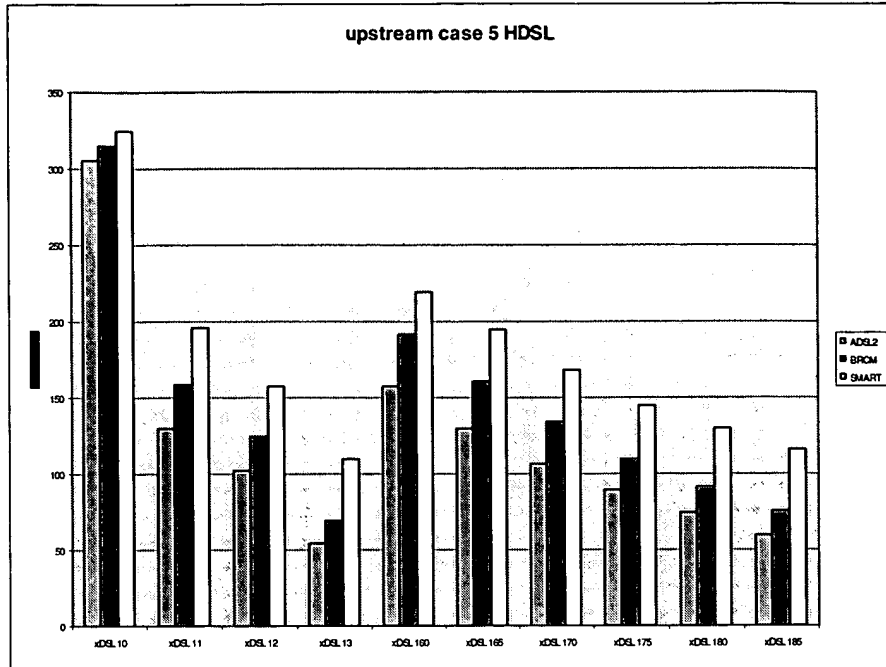
**Figure 5. Bar Chart, Upstream Rate, Noise case #2, ADSL2, M OJ-074, NON EC Smart LDSL**



**Figure 6. Bar Chart, Upstream Rate, Noise case #3, ADSL2, M OJ-074, NON EC Smart LDSL**

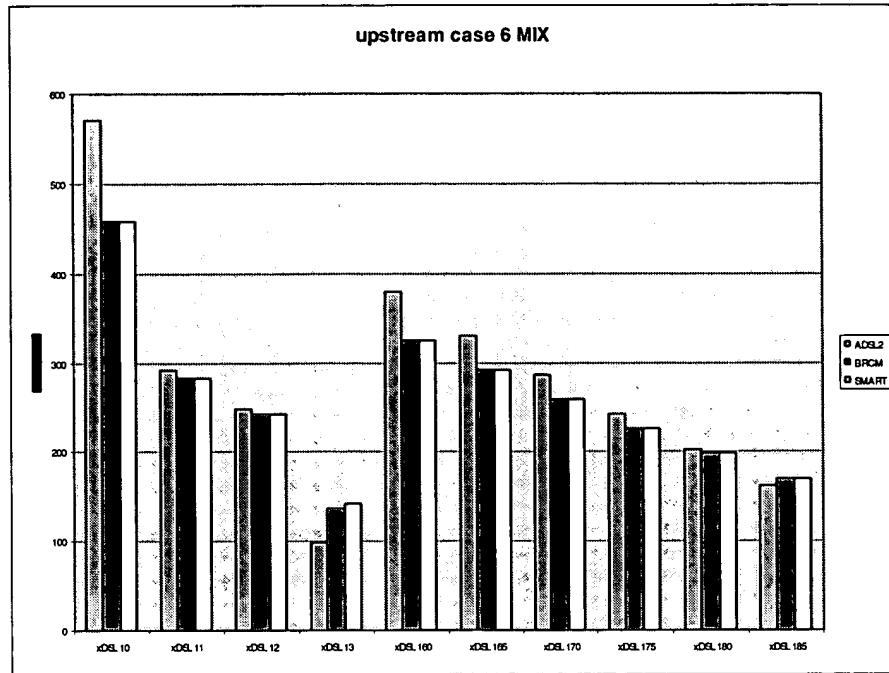


**Figure 7. Bar Chart, Upstream Rate, Noise case #4, ADSL2, M OJ-074, NON EC Smart LDSL**

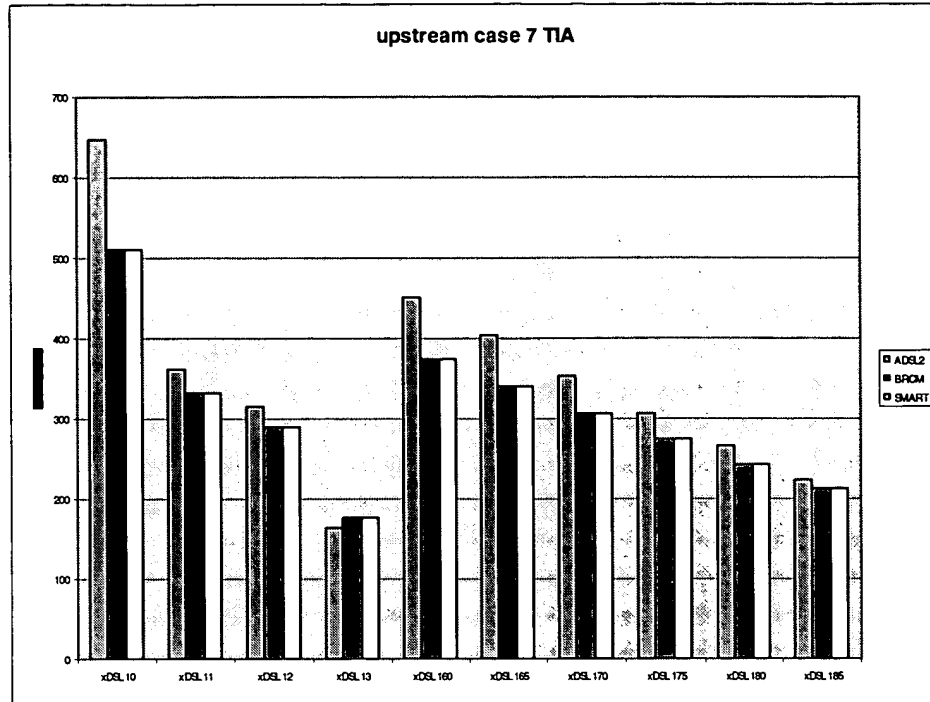


**Figure 8. Bar Chart, Upstream Rate, Noise case #5, ADSL2, M OJ-074, NON EC Smart LDSL**

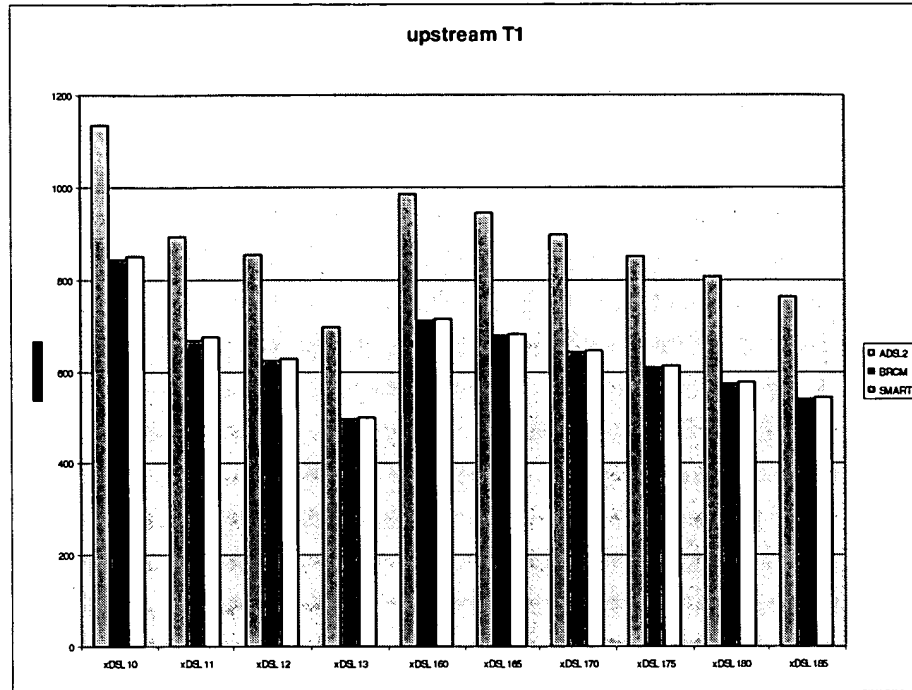




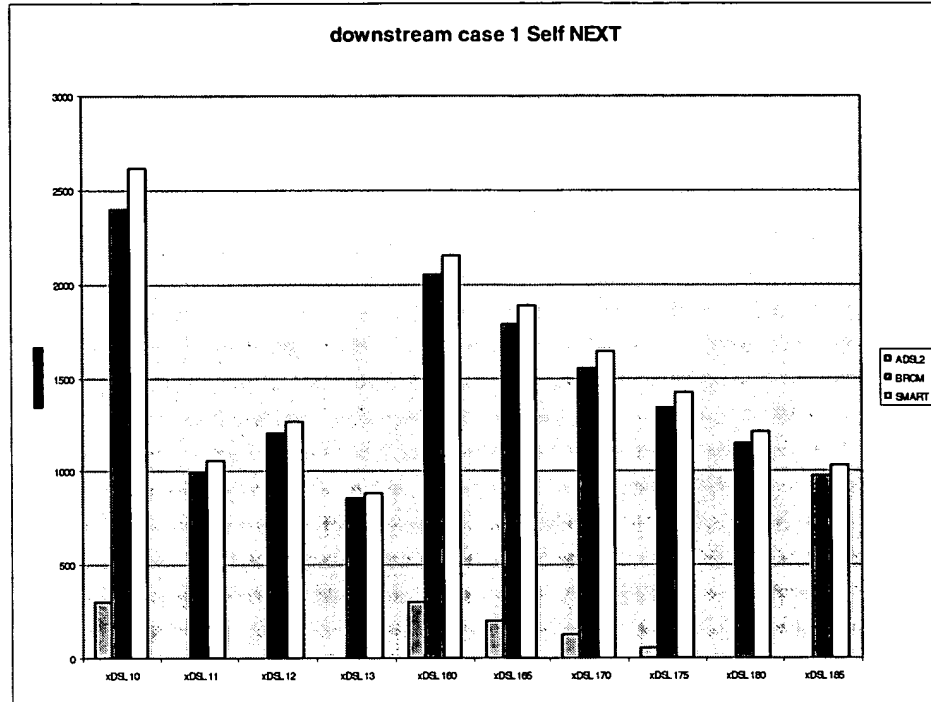
**Figure 9. Bar Chart, Upstream Rate, Noise case #6, ADSL2, M OJ-074, NON EC Smart LDSL**



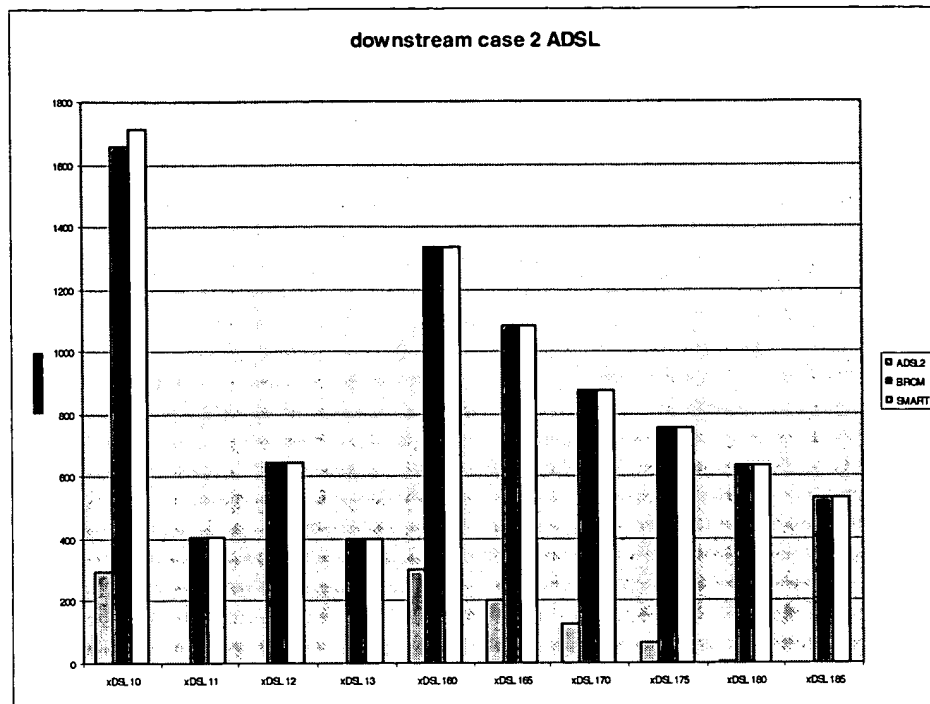
**Figure 10. Bar Chart, Upstream Rate, Noise case #7, ADSL2, M OJ-074, NON EC Smart LDSL**



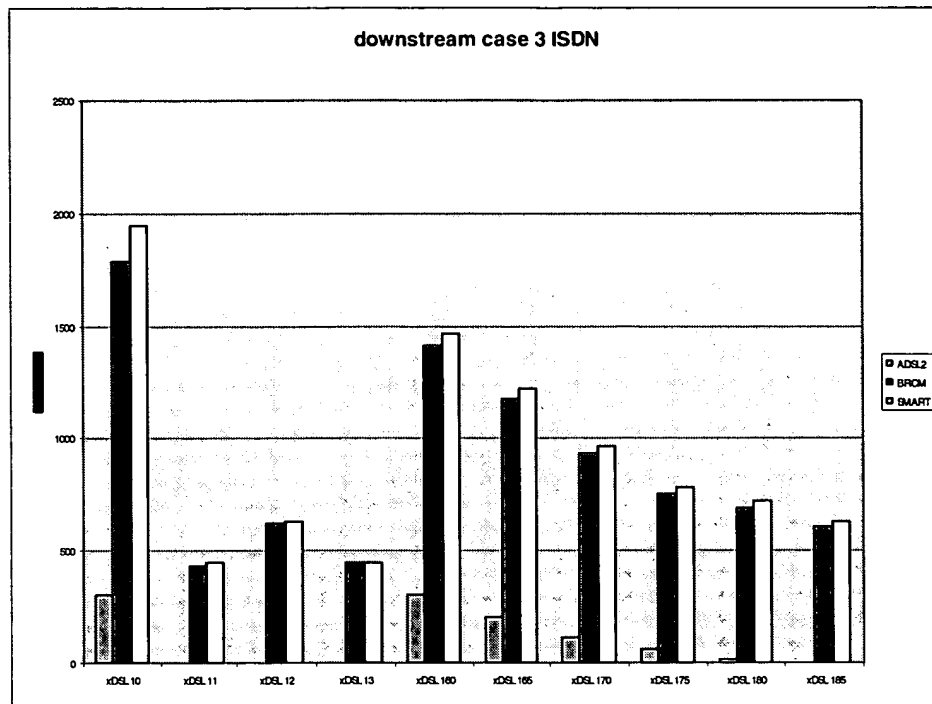
**Figure 11. Bar Chart, Upstream Rate, Noise case #T1, ADSL2, M OJ-074, NON EC Smart LDSL**



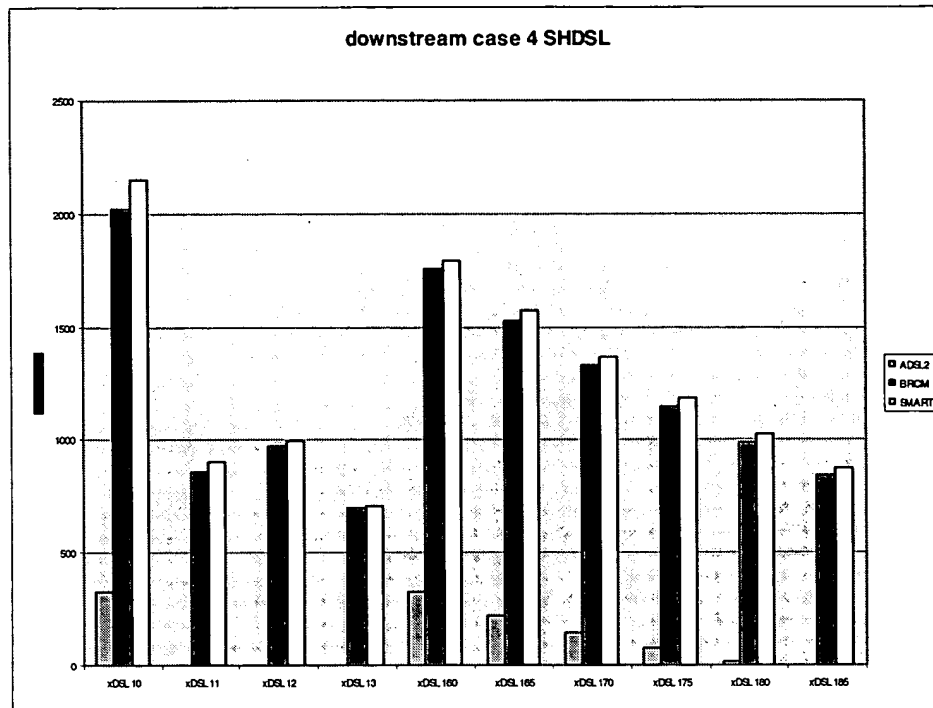
**Figure 12. Bar Chart, Downstream Rate, Noise case #1, ADSL2, M OJ-074, NON EC Smart LDSL**



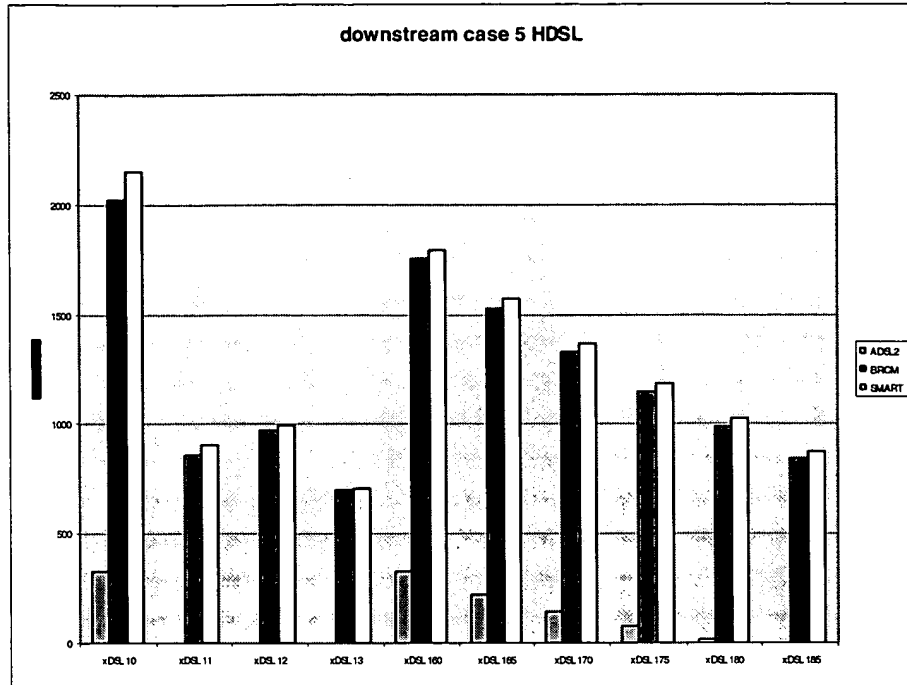
**Figure 13. Bar Chart, Downstream Rate, Noise case #2, ADSL2, M  
OJ-074, NON EC Smart LDSL**



**Figure 14. Bar Chart, Downstream Rate, Noise case #3, ADSL2, M OJ-074, NON EC Smart LDSL**

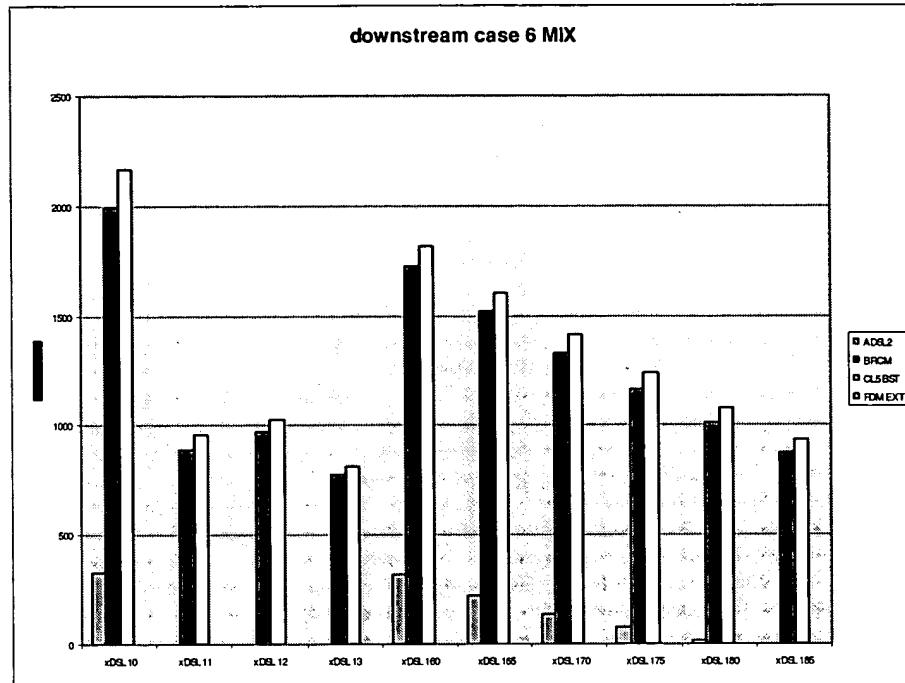


**Figure 15. Bar Chart, Downstream Rate, Noise case #4, ADSL2, M  
OJ-074, NON EC Smart LDSL**

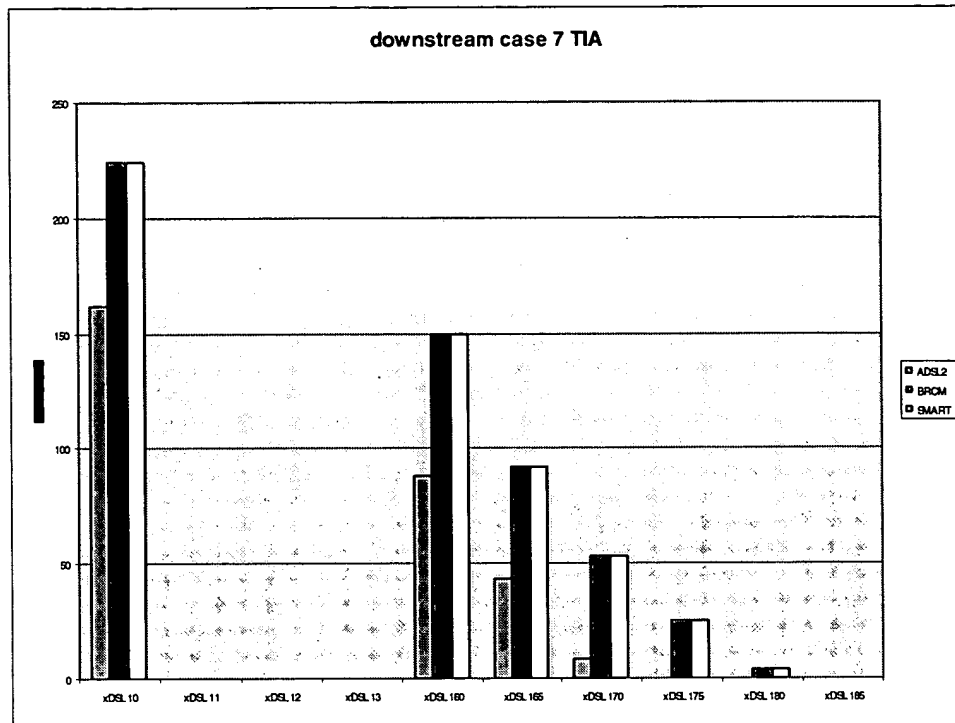


**Figure 16. Bar Chart, Downstream Rate, Noise case #5, ADSL2, M  
OJ-074, NON EC Smart LDSL**

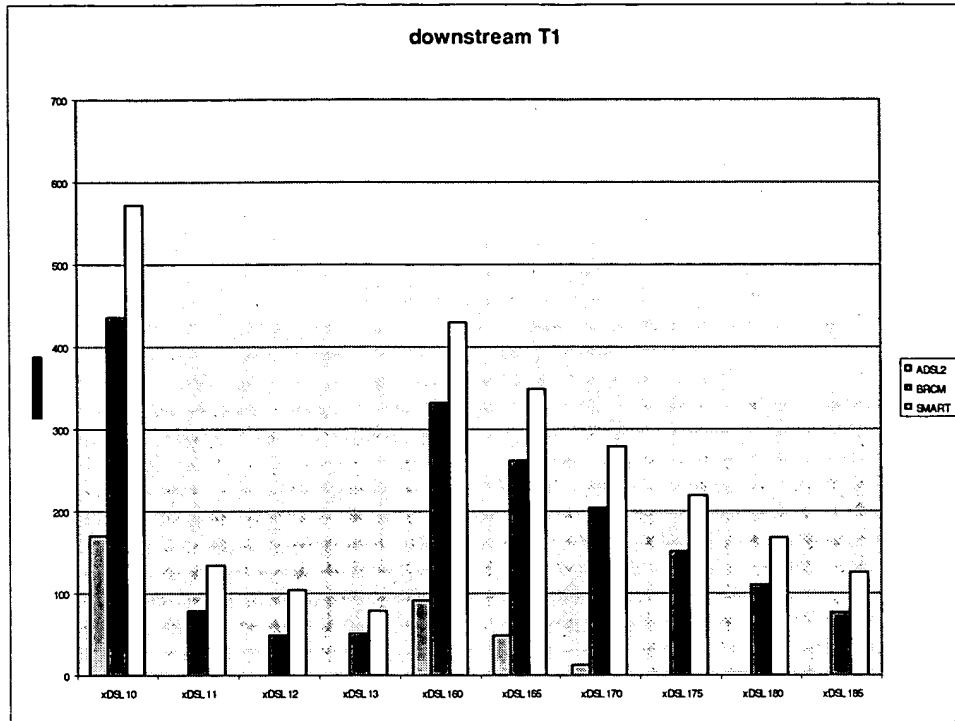




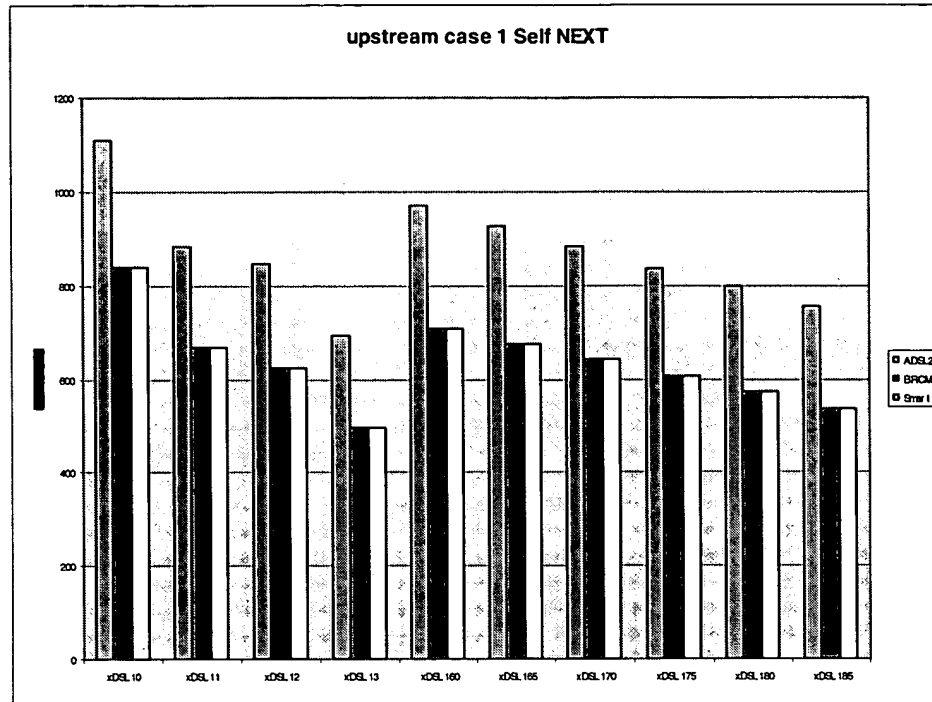
**Figure 17. Bar Chart, Downstream Rate, Noise case #6, ADSL2, M OJ-074, NON EC Smart LDSL**



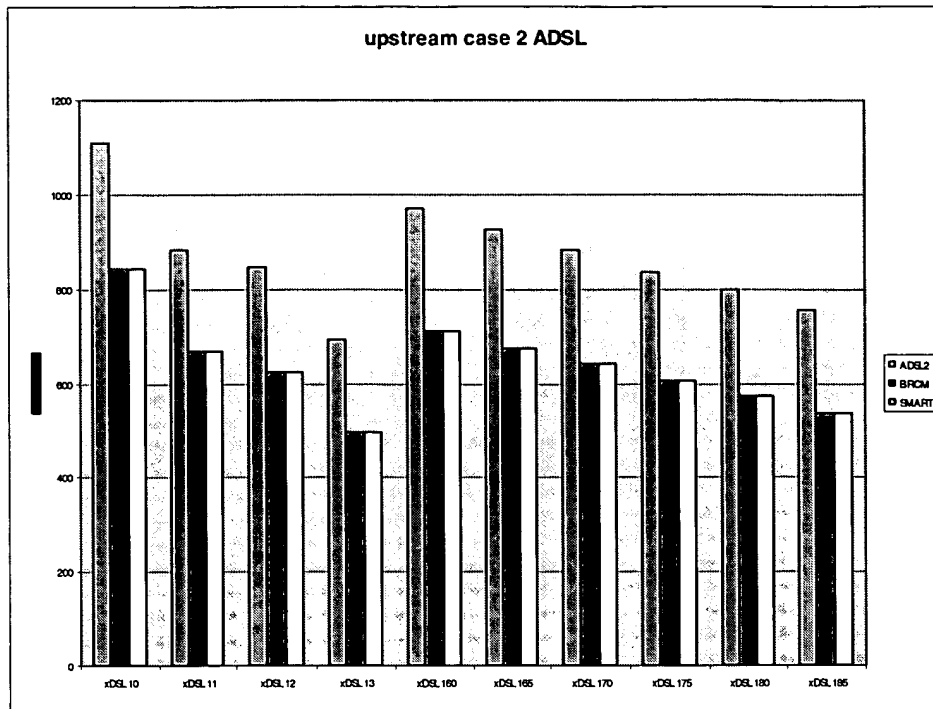
**Figure 18. Bar Chart, Downstream Rate, Noise case #7, ADSL2, M  
OJ-074, NON EC Smart LDSL**



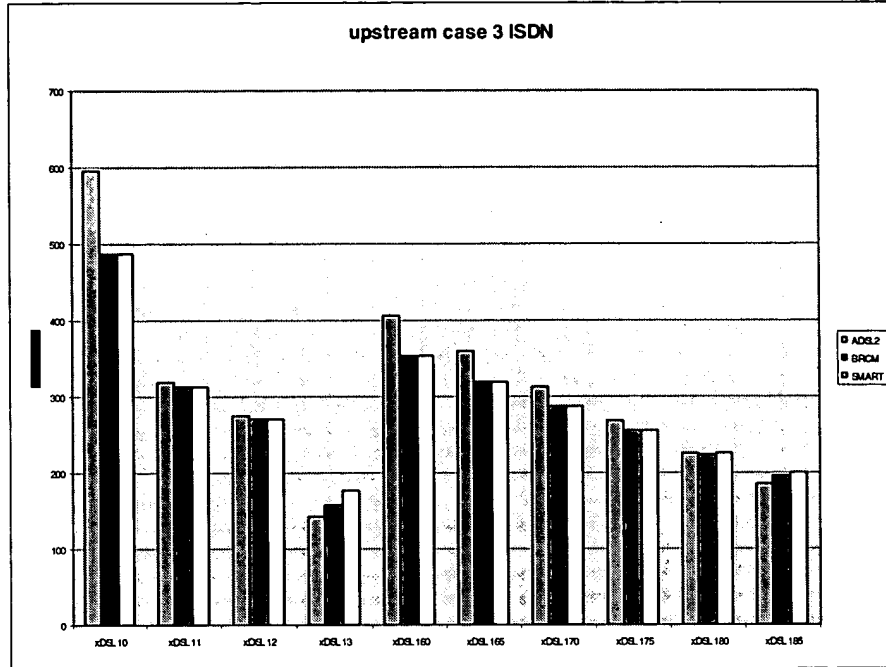
**Figure 19. Bar Chart, Downstream Rate, Noise case #T1, ADSL2, M OJ-074, NON EC Smart LDSL**



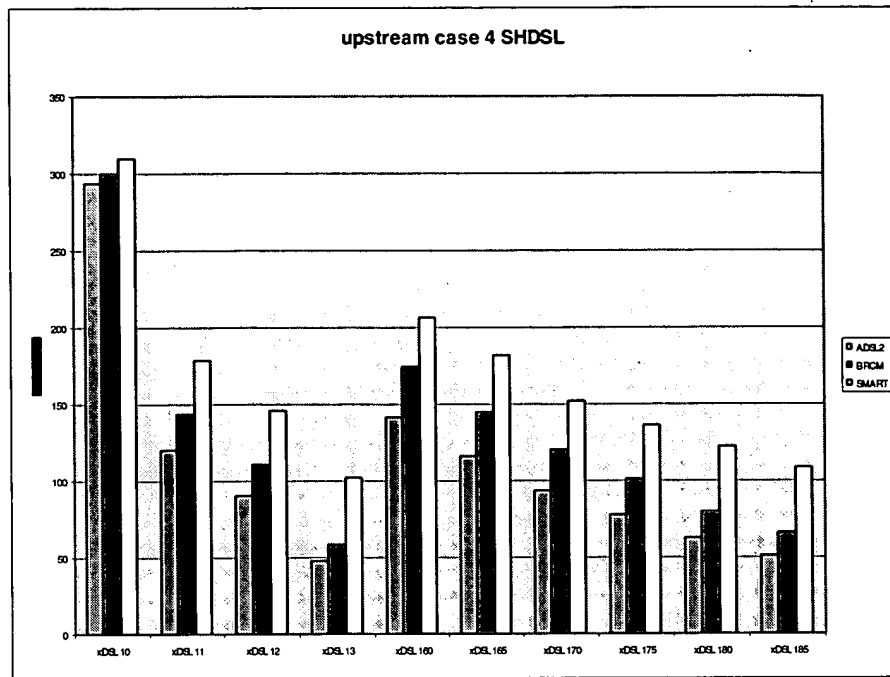
**Figure 20. Bar Chart, Upstream Rate, Noise case #1, ADSL2, M OJ-074, EC Smart LDSL**



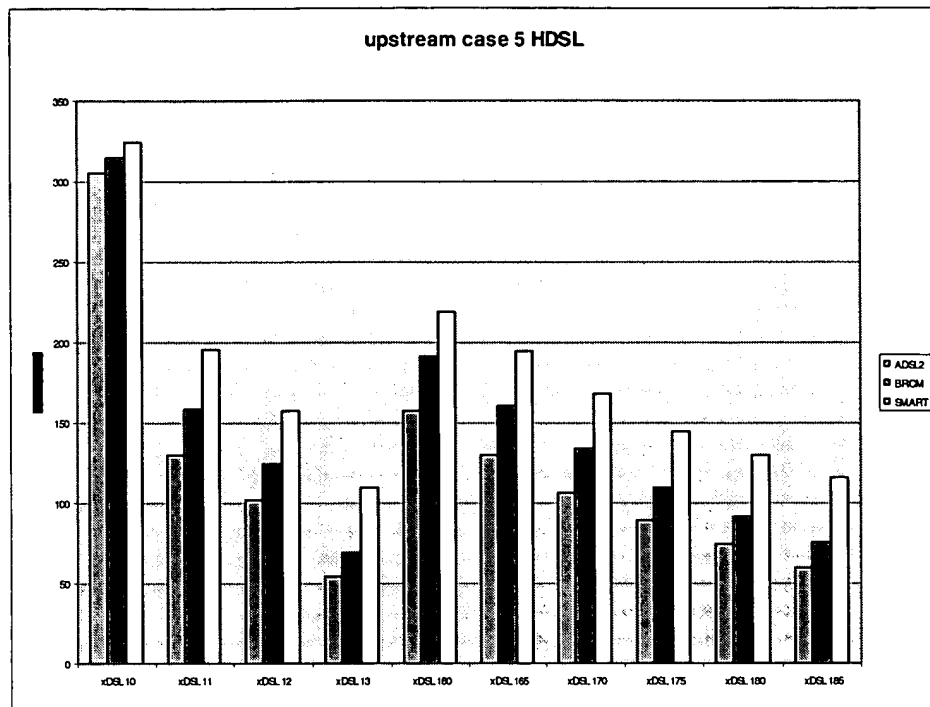
**Figure 21. Bar Chart, Upstream Rate, Noise case #2, ADSL2, M OJ-074, EC Smart LDSL**



**Figure 22. Bar Chart, Upstream Rate, Noise case #3, ADSL2, M OJ-074, EC Smart LDSL**

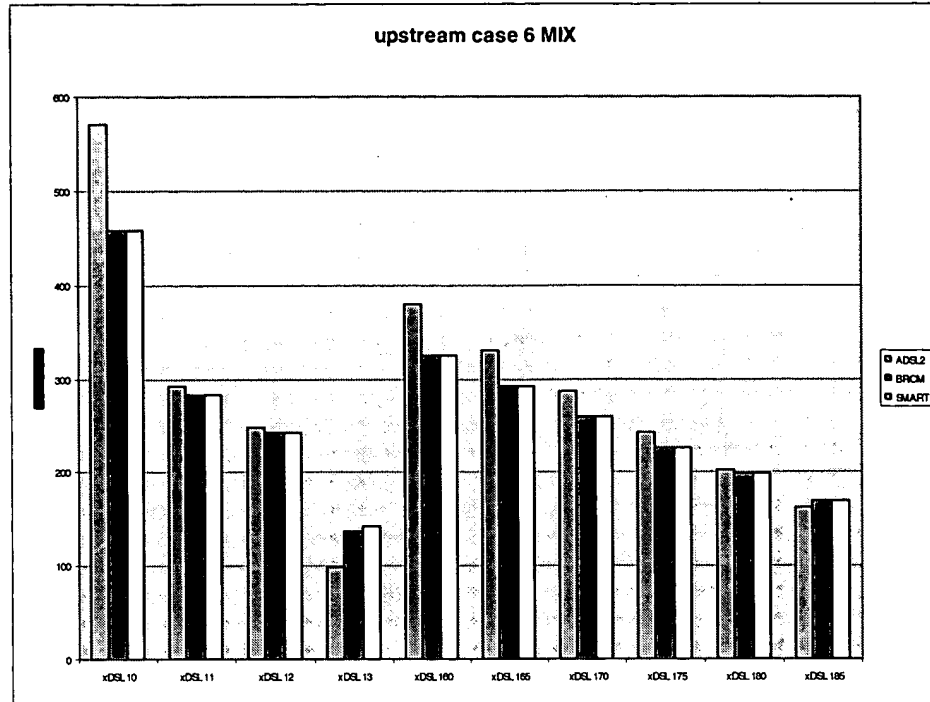


**Figure 23. Bar Chart, Upstream Rate, Noise case #4, ADSL2, M OJ-074, EC Smart LDSL**

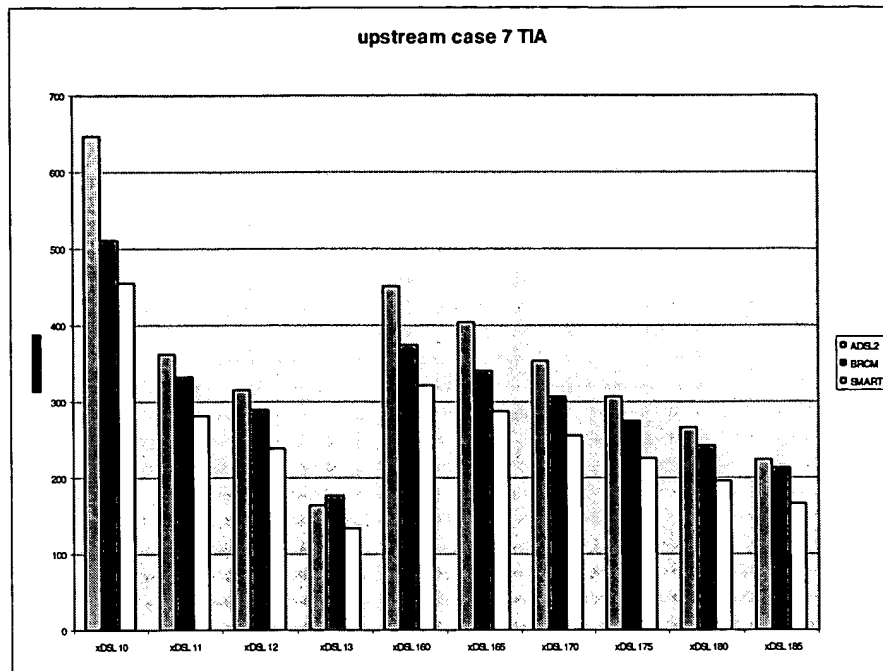


**Figure 24. Bar Chart, Upstream Rate, Noise case #5, ADSL2, M  
OJ-074, EC Smart LDSL**

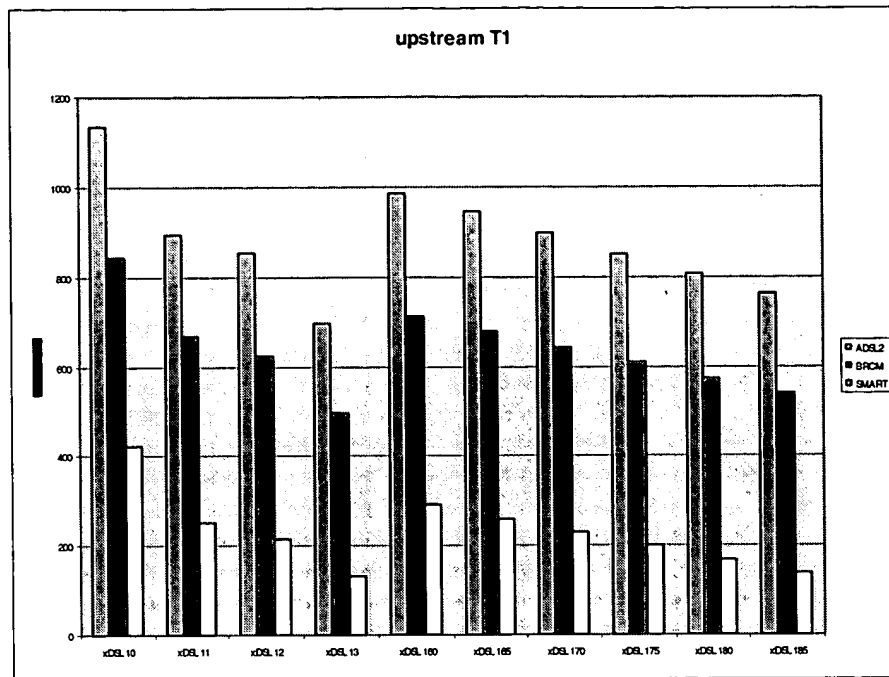




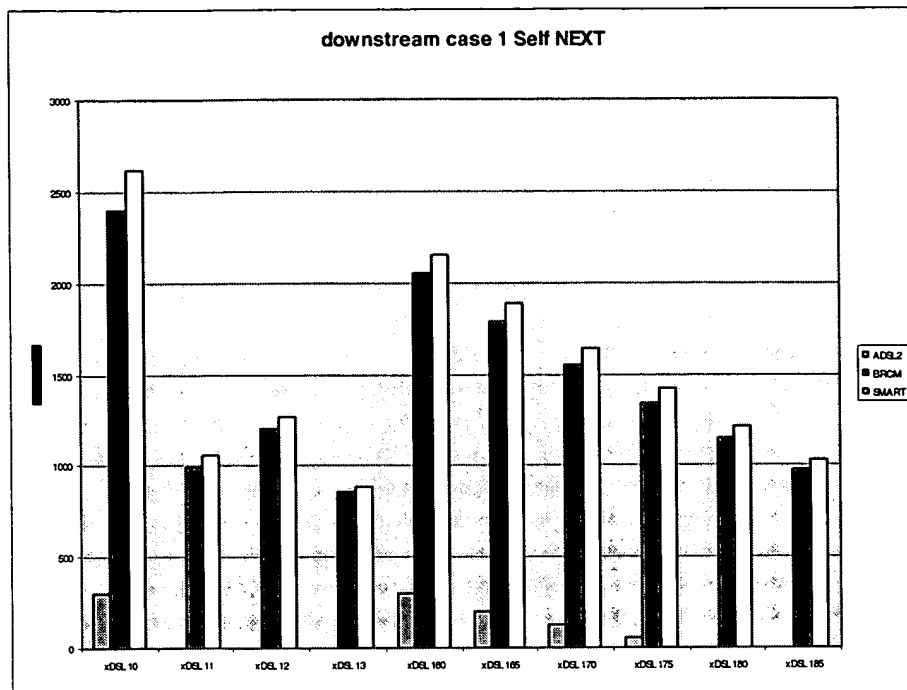
**Figure 25. Bar Chart, Upstream Rate, Noise case #6, ADSL2, M OJ-074, EC Smart LDSL**



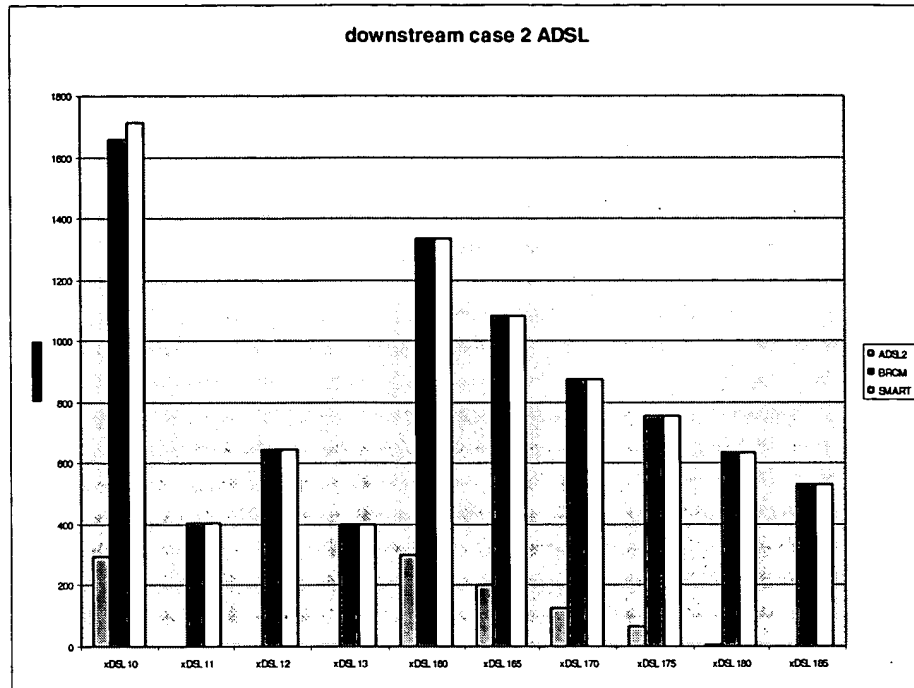
**Figure 26. Bar Chart, Upstream Rate, Noise case #7, ADSL2, M OJ-074, EC Smart LDSL**



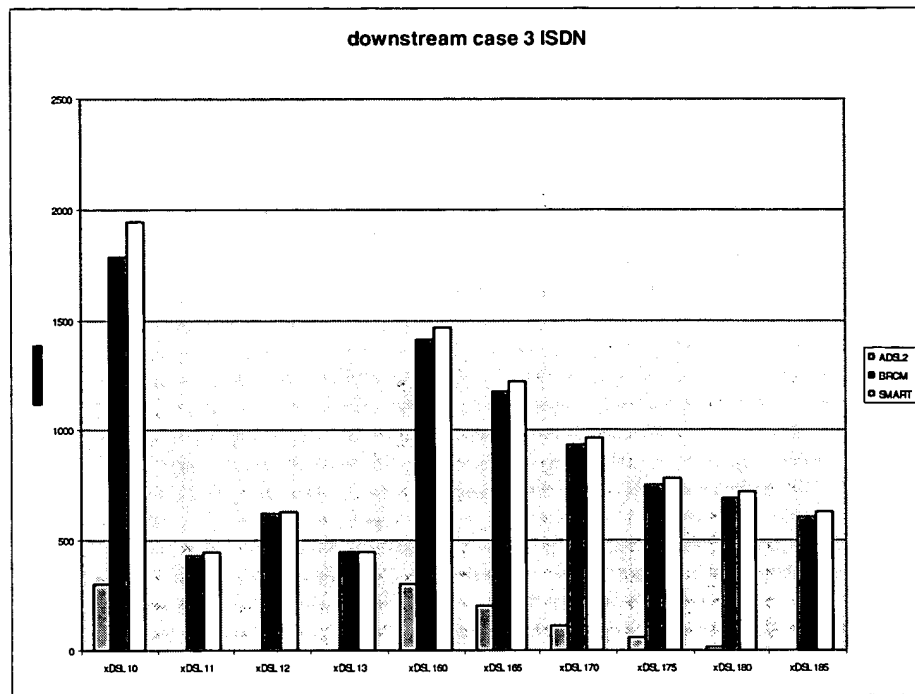
**Figure 27. Bar Chart, Upstream Rate, Noise case #T1, ADSL2, M  
OJ-074, EC Smart LDSL**



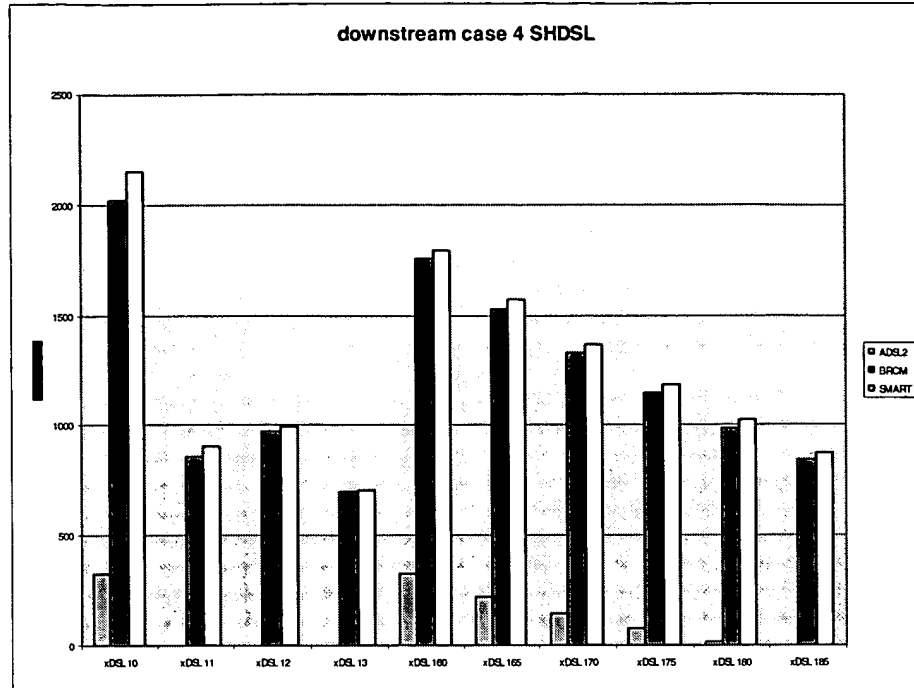
**Figure 28. Bar Chart, Downstream Rate, Noise case #1, ADSL2, M OJ-074, EC Smart LDSL**



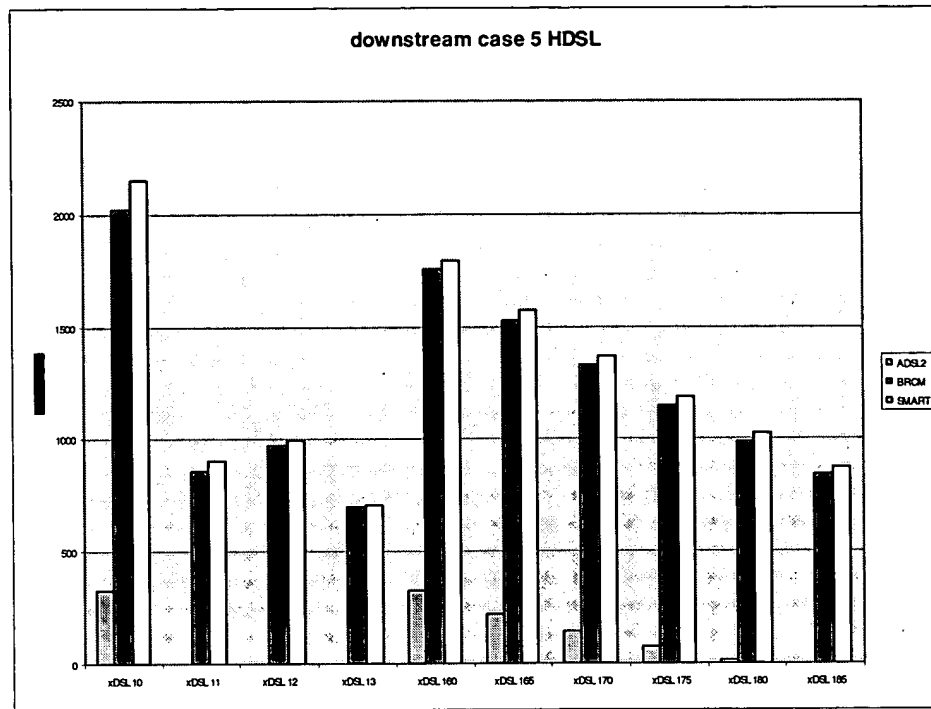
**Figure 29. Bar Chart, Downstream Rate, Noise case #2, ADSL2, M OJ-074, EC Smart LDSL**



**Figure 30. Bar Chart, Downstream Rate, Noise case #3, ADSL2, M OJ-074, EC Smart LDSL**

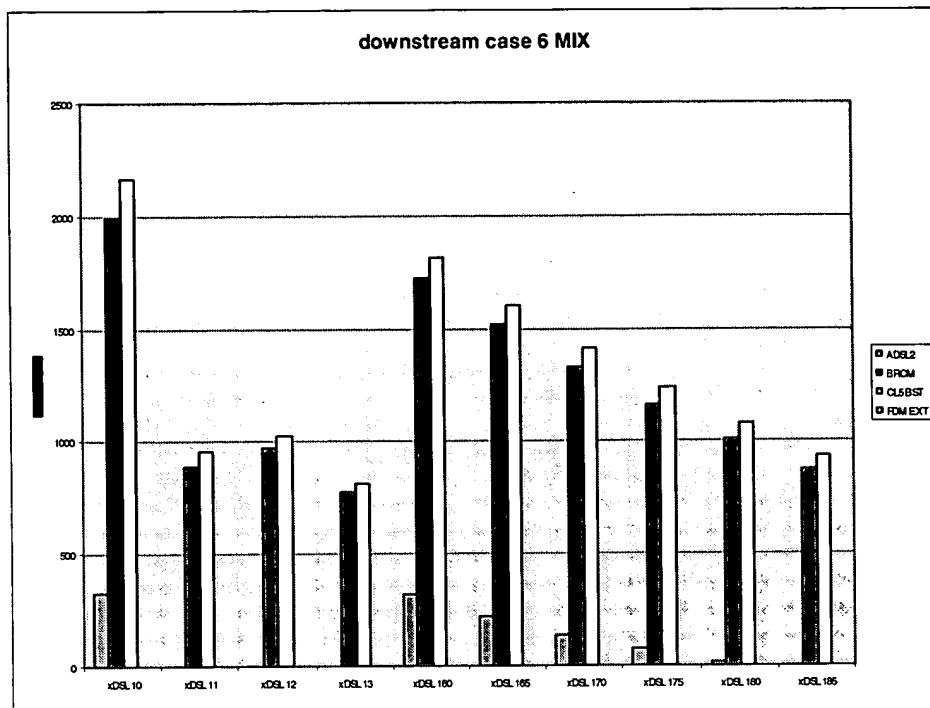


**Figure 31. Bar Chart, Downstream Rate, Noise case #4, ADSL2, M OJ-074, EC Smart LDSL**

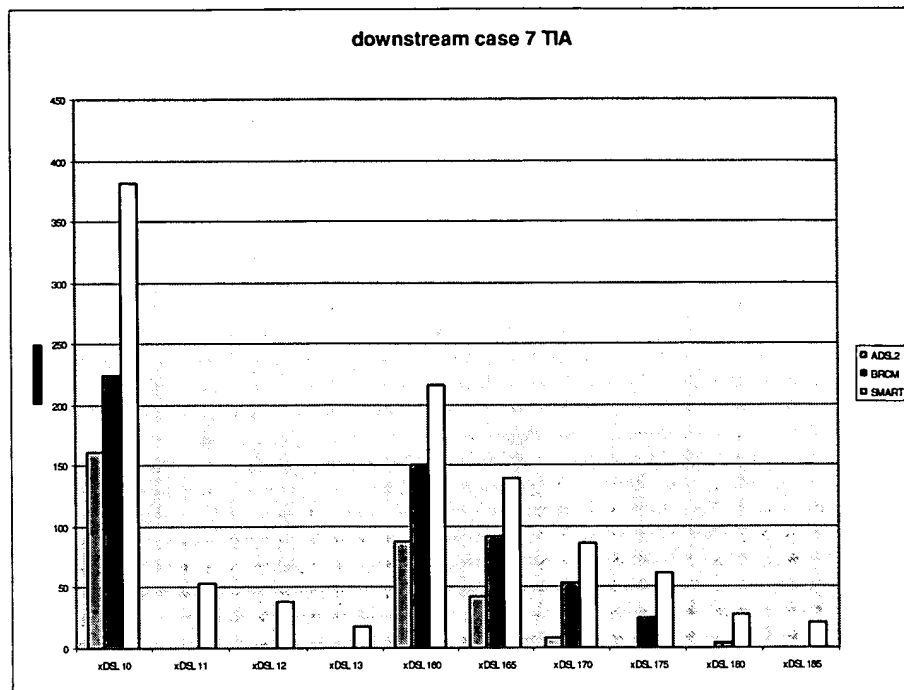


**Figure 32. Bar Chart, Downstream Rate, Noise case #5, ADSL2, M  
OJ-074, EC Smart LDSL**

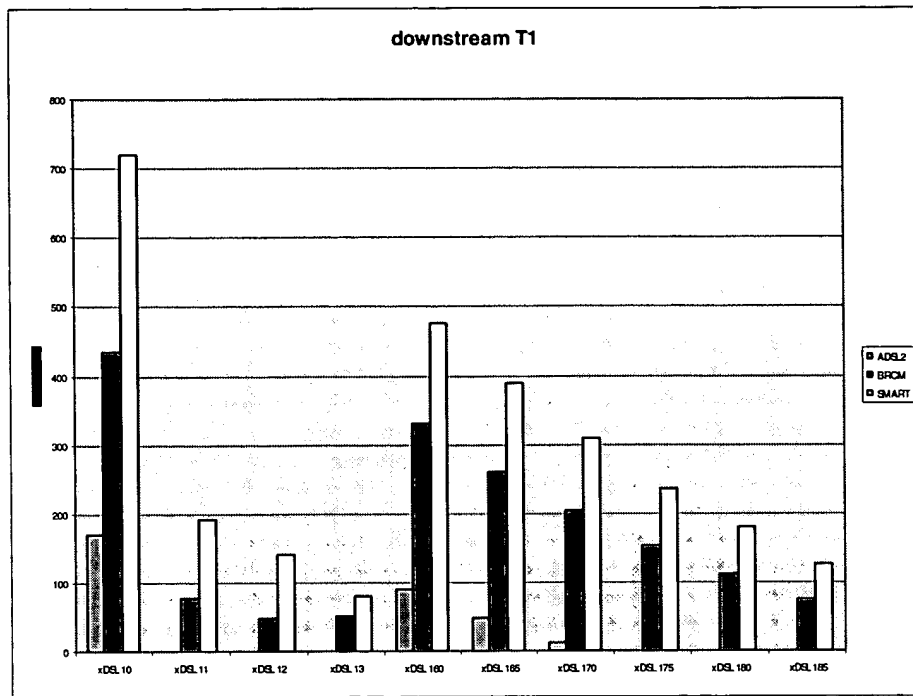




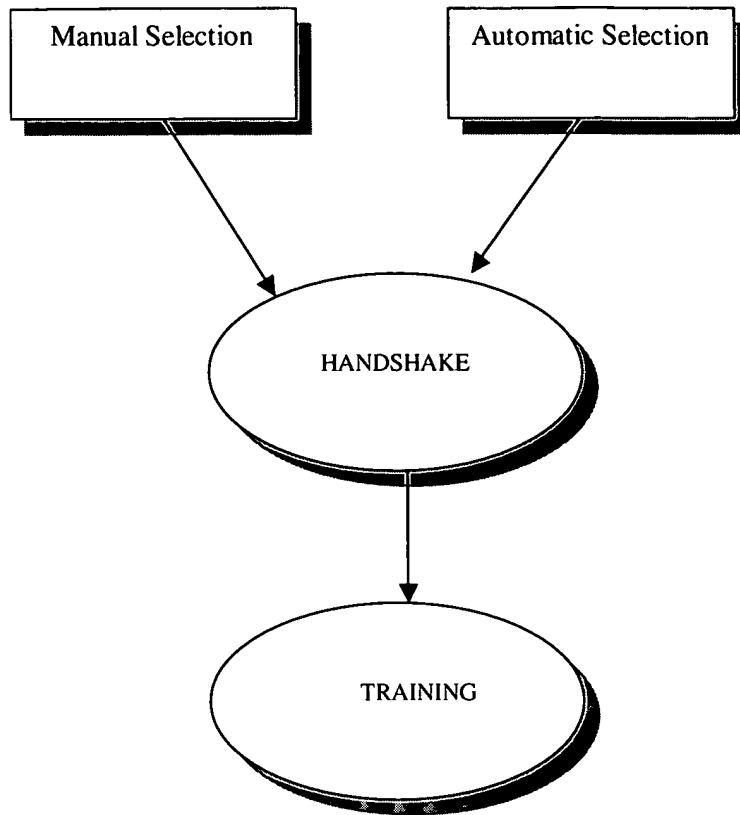
**Figure 33. Bar Chart, Downstream Rate, Noise case #6,  
ADSL2, M OJ-074, EC Smart LDSL**



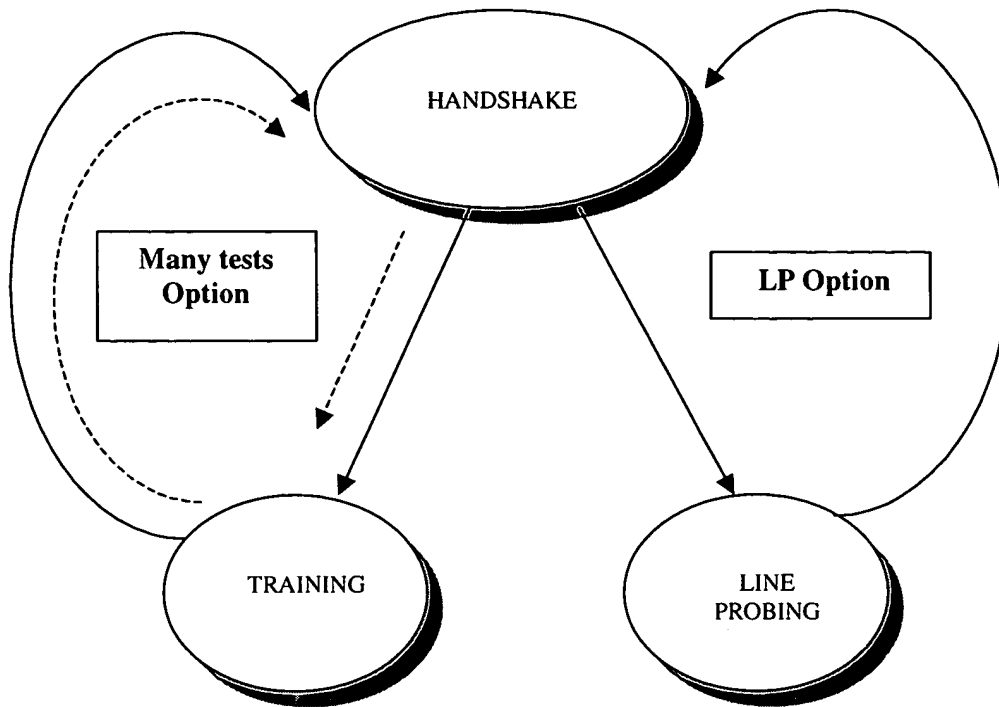
**Figure 34. Bar Chart, Downstream Rate, Noise case #7, ADSL2, M OJ-074, EC Smart LDSL**



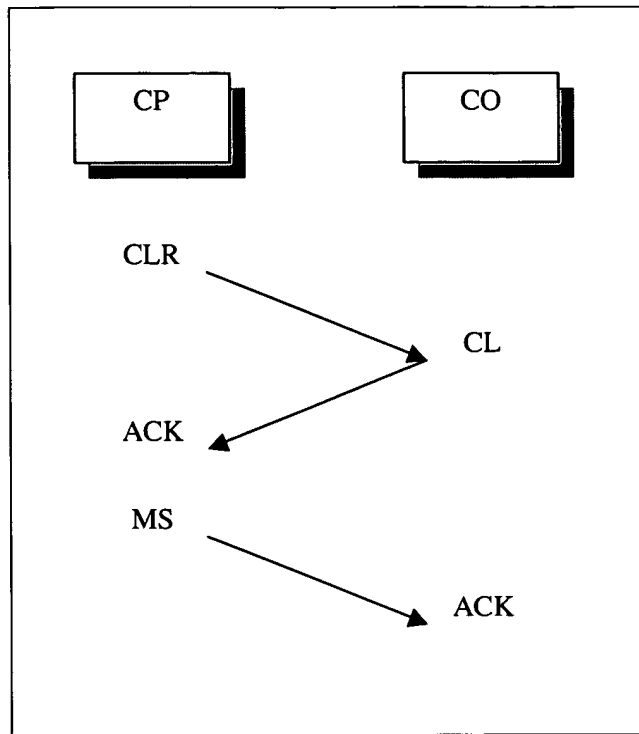
**Figure 35. Bar Chart, Downstream Rate, Noise case #T1, ADSL2, M  
OJ-074, EC Smart LDSL**



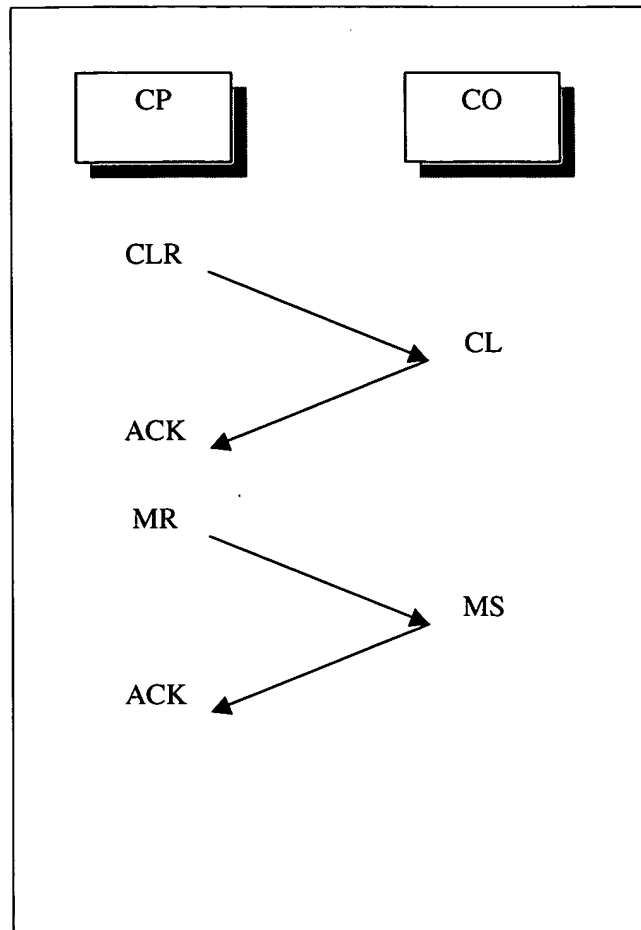
**Figure 36. Two smart system selection modes: Manual and Automatic**



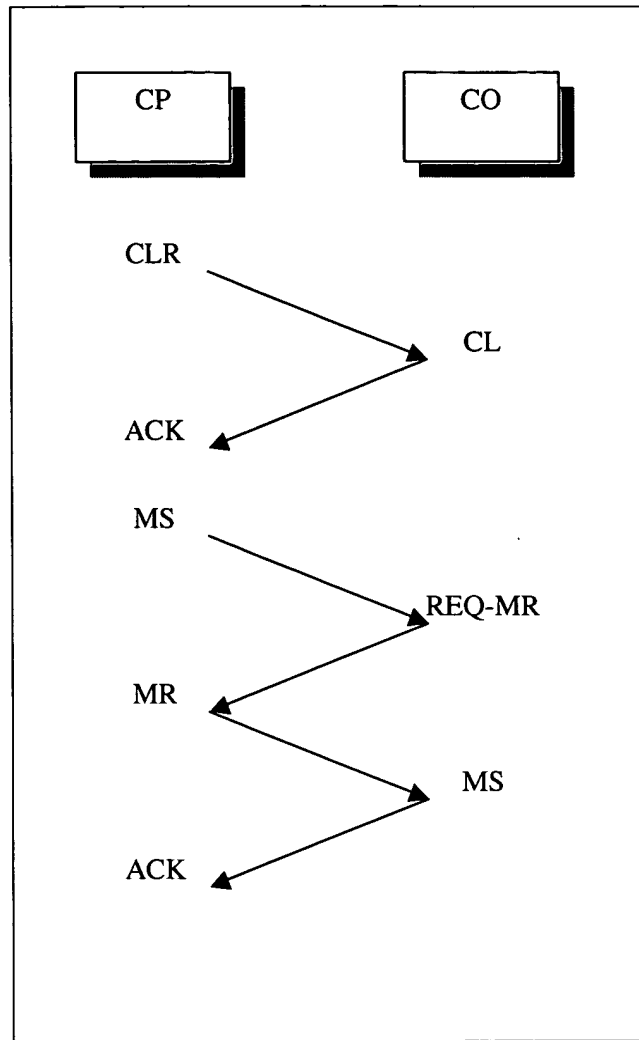
**Figure 37. Two options to automatically select a pair of masks in a smart DSL system**



**Figure 38. “CP decides” sequence based on G.992.3**



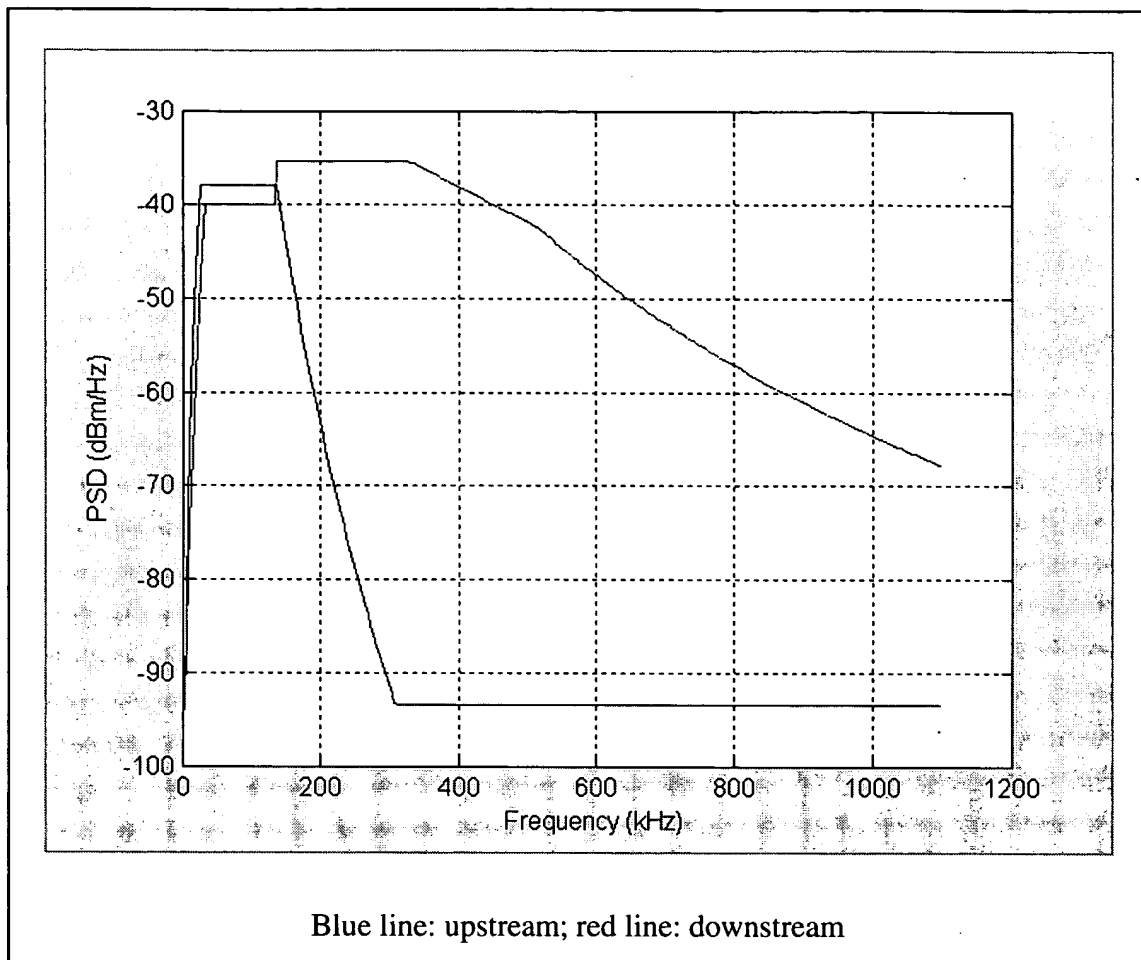
**Figure 39. “CO decides” sequence based on G.992.3**



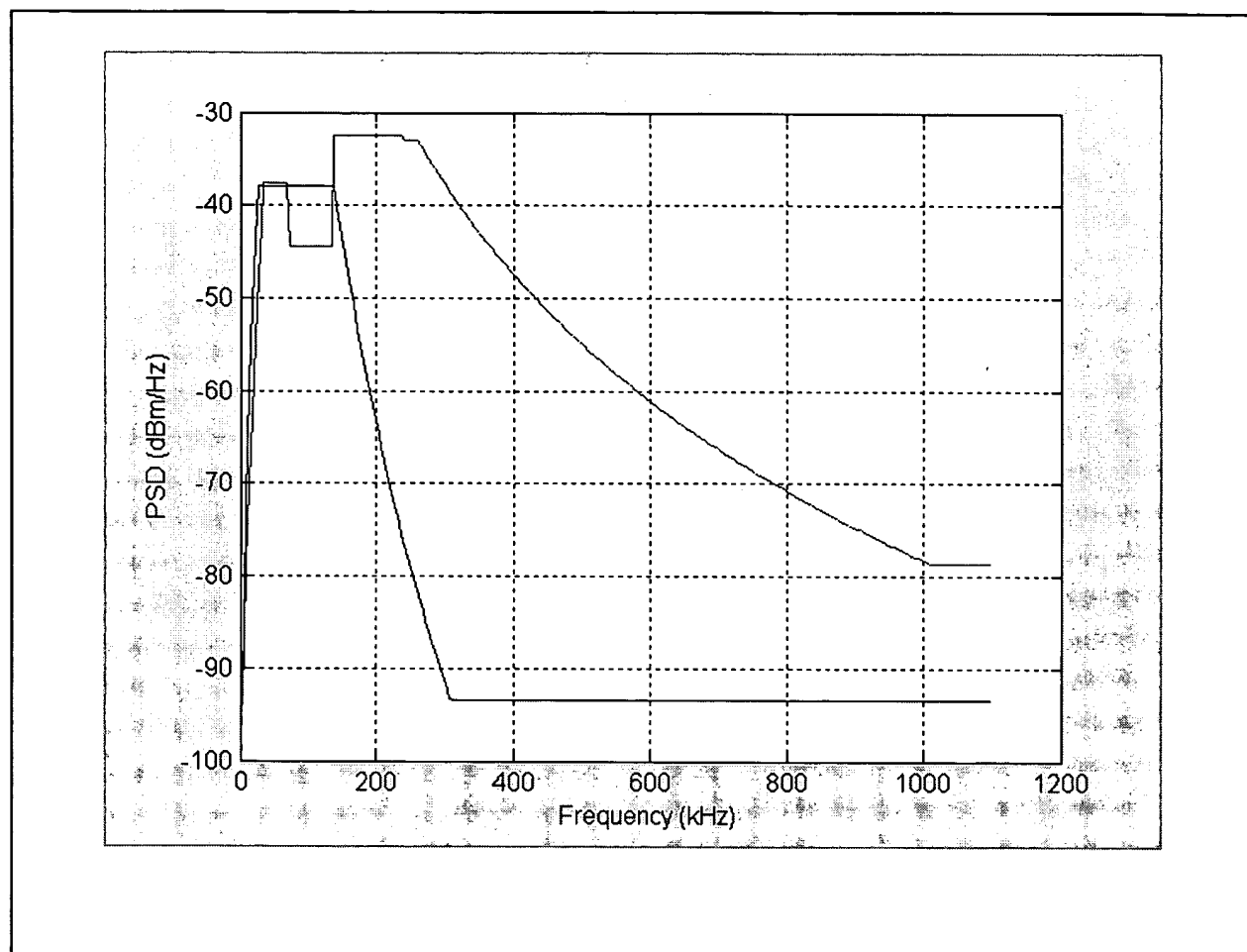
**Figure 40. “CP is overruled by CO” sequence**



**Figure 41. LDSL Downstream Wide Mask and G.992.1 Upstream Mask (Nominal Values)**

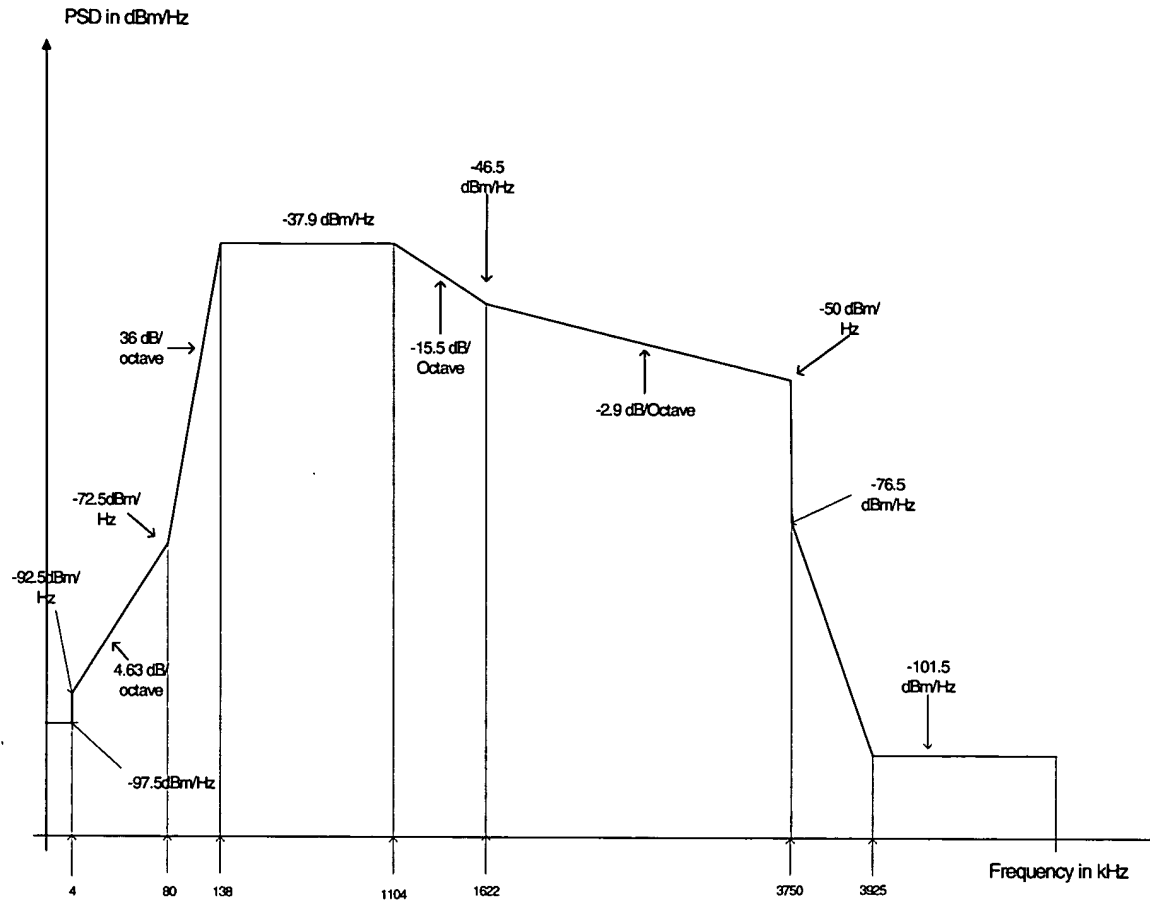


**Figure 42. LDSL Downstream Narrow Mask and G.992.1 Upstream Mask**

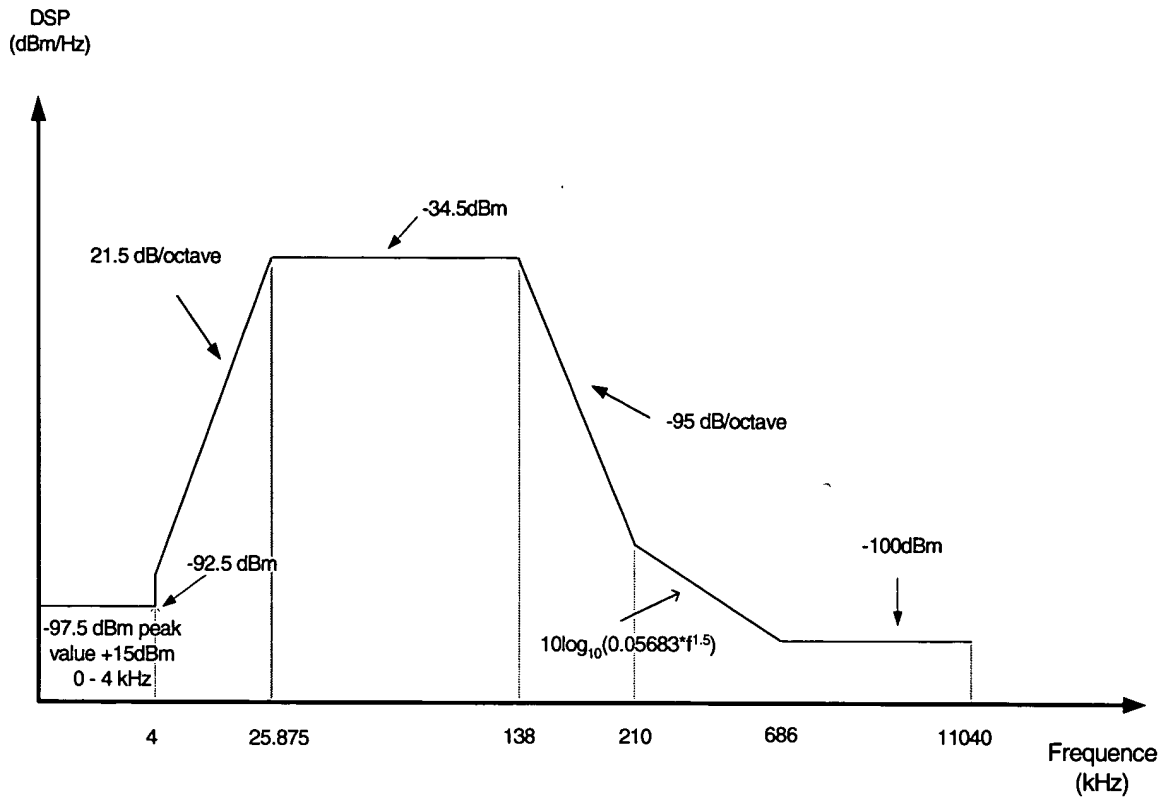


**(Nominal Values)**

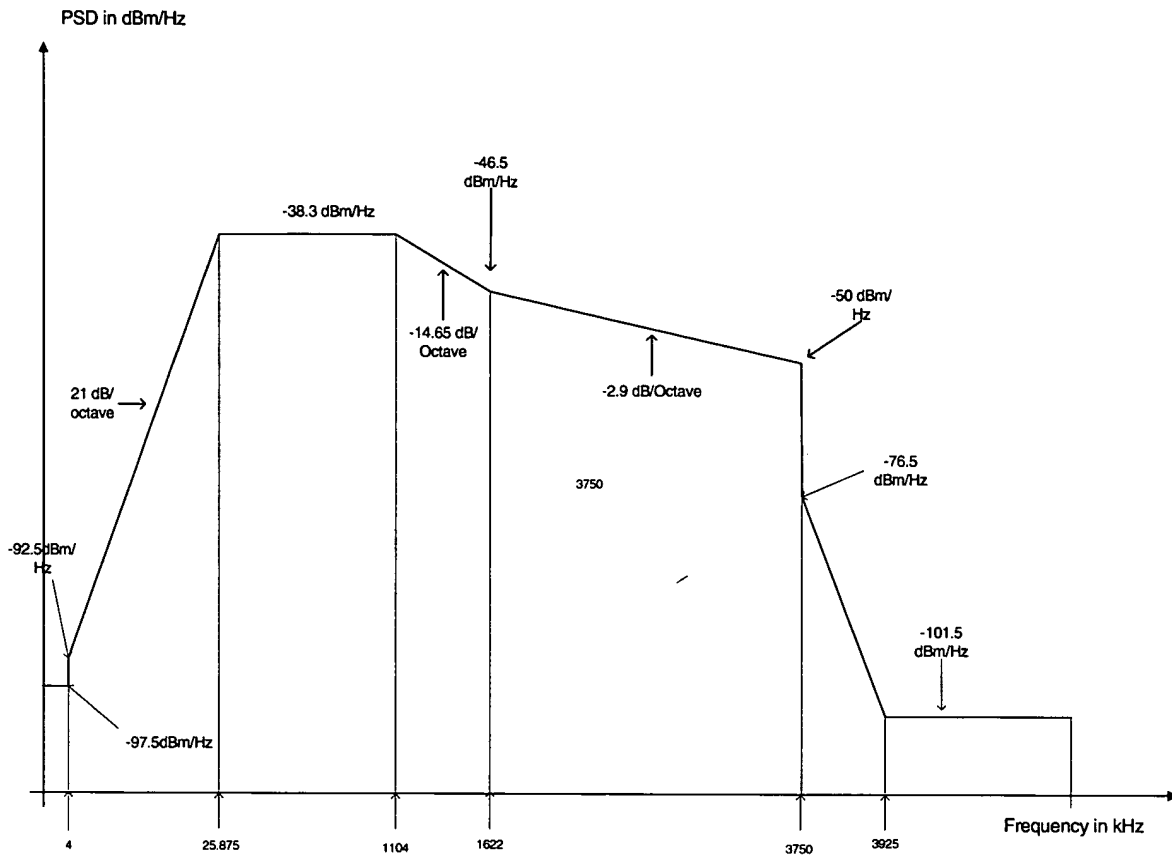
**Figure 43. Quad Spectrum Mask Plot, Peak Values**



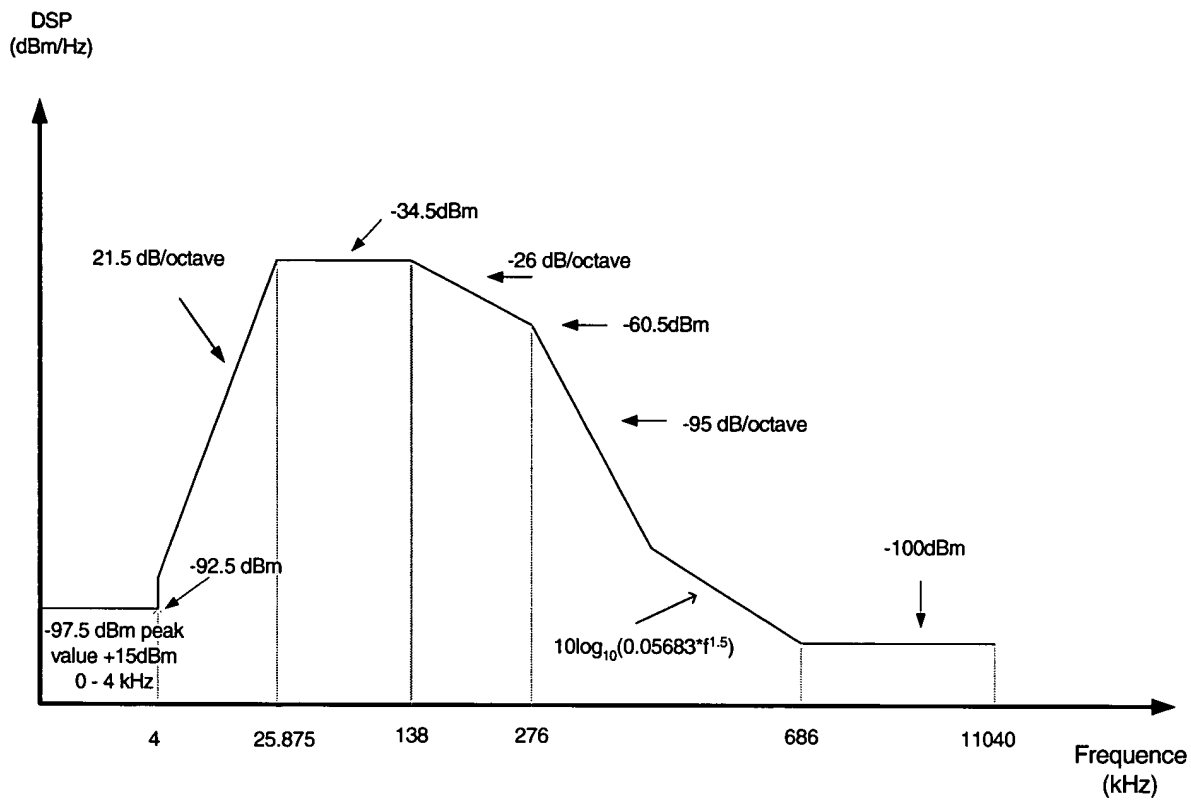
**Figure 44. G.992.5 Upstream Mask Plot, Peak Values**



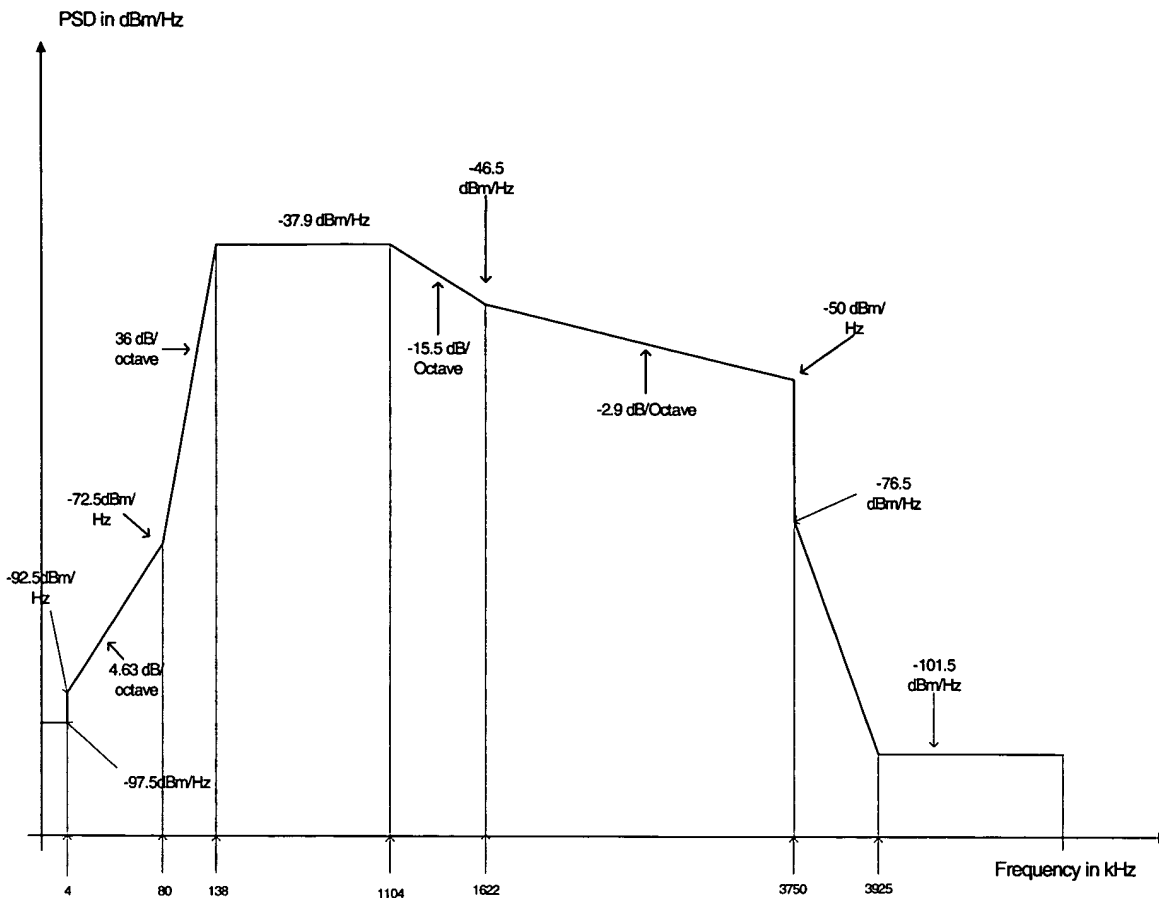
**Figure 45. Extended Overlap Quad Spectrum Overlap Downstream Mask, Plot based on Peak Values**



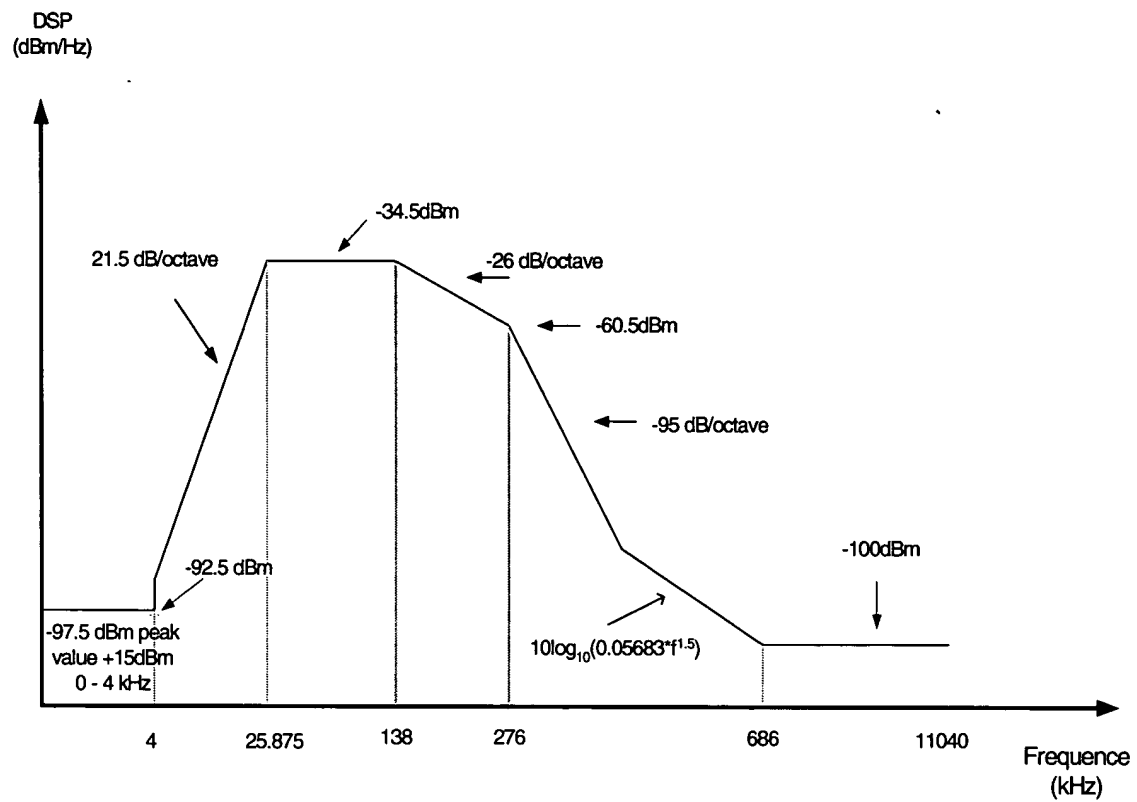
**Figure 46. Extended Overlap Quad Spectrum Upstream Mask Plot  
based on Peak Values**



**Figure 47. Quad Spectrum Reduced Overlap Downstream Mask Plot based on Peak Values**

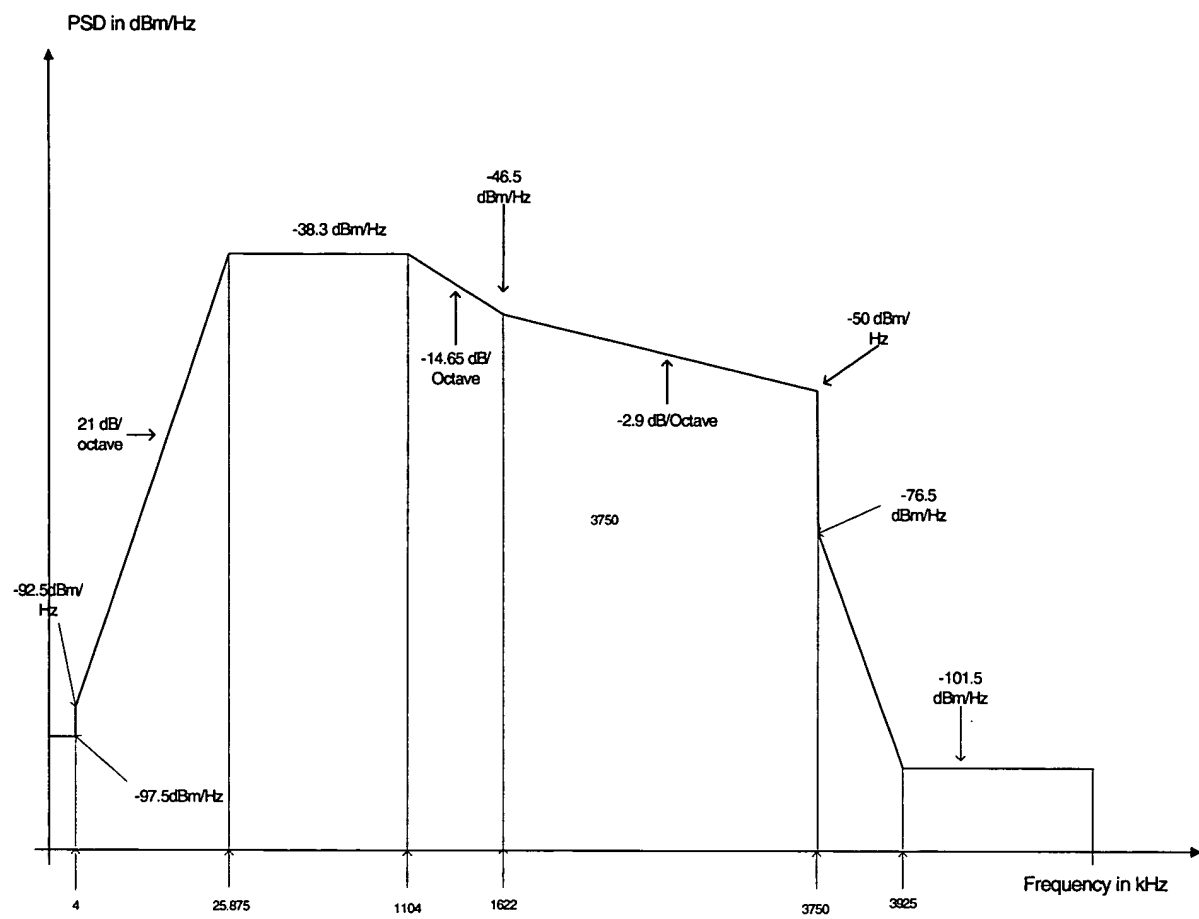


**Figure 48. Extended Upstream Mask Plot based on Peak Values**





**Figure 49. OL Quad Spectrum Downstream Mask Plot, Peak Values**



**Figure 50. G.992.5 Upstream Mask Plot, Peak Values**

